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# the INDUSTRIAL MANIFEST

• MANUFACTURING • MINING  
• AGRICULTURE

OF

Montana

• RECREATION  
& SERVICE INDUSTRIES



MONTANA  
PREPARES  
FOR A  
GREAT FUTURE  
AS THE NEW  
INDUSTRIAL  
FRONTIER

PROJECTING THE LAST HALF OF THE "SIXTIES" 1966 — 1970





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# Viking LODGE

WHITEFISH, MONTANA

"Complete vacation and convention facilities." Summer's the time for boating, water skiing, and fishing on beautiful Whitefish Lake or an active day on the near by 18-hole golf course—among the finest found anywhere. Scenic Glacier Park, Hungry Horse Dam and Flathead Lake are but a few minutes away by car. In winter the accent is on skiing at nationally famous Big Mountain Ski Resort with bus transportation available for guests. And of course there is swimming year around in the Viking's spacious heated pool.



# **Viking LODGE**

The Viking Lodge, one of the newest and finest resort facilities in the Northwest, is complete in every respect—fireproof, soundproof construction, steam heat with individual room thermostats, coin operated laundry facilities, boat dock and large beach area. Lounge, private dining and special occasion rooms, and space to seat 175 banquet style on each floor make the Viking perfect whatever the occasion. And remember, if you arrive by bus, train or plane, to call the Viking for free pickup limousine service

## **Viking DINING ROOM**

Perhaps the most striking feature of this new and modern lodge is the bold A-frame which dominates the center section housing the dining room and cafeteria. A wide selection of food, expertly prepared, is featured for your dining pleasure. Much of the year an ever-changing sunset seen from your table overlooking Whitefish Lake provides the perfect complement to a delicious meal.



## **Viking ROOMS**

All of the 42 units feature luxurious wall to wall carpeting, ceramic tile baths with shower-tub combinations, and telephones. Television as well is to be found in most of the rooms and some rooms have private balconies providing beautiful views of the lake and surrounding mountains. A wide variety of accommodations are available—from deluxe living room-bedroom suites to dormitories. The rooms, finished in antique birch and pastel-hued block, are tastefully furnished to provide comfortable living during your stay.



## **Viking SPECIALITY SHOP**

This unique part of the Lodge is a ski shop in winter featuring the finest in imported and domestic ski wear, during the summer, swim wear, bathing accessories, and eye-catching sportswear are on display. Year around one may find Swedish, Norwegian and Danish specialties and novelties. If you are looking for the unusual in quality merchandise, be sure to spend some time browsing.



## **Viking SAUNA BATH**

Located only a few steps from the pool, the Sauna has become one of the most popular "extra" attractions to be found at the Viking. Balm for aching ski muscles or relief from tension, the Viking Sauna provides a wonderful sense of physical and mental well being as well as a feeling of cleanliness obtainable in no other way.







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ABOVE: SKIER ON BIG MOUNTAIN WITH PANORAMIC VIEW OF WHITEFISH BELOW  
 TOP RIGHT: AIR VIEW OF WHITEFISH AND WHITEFISH LAKE WHICH OFFERS SOME OF MONTANA'S FINEST FISHING  
 LEFT: DON'T MISS PLAYING ON THE BEAUTIFUL 18-HOLE WHITEFISH GOLF COURSE  
 LOWER RIGHT: WATER SKIING IN FRONT OF THE ULTRA-MODERN VIKING LODGE WHICH IS ON THE ROAD TO BIG MOUNTAIN JUST NORTH OF WHITEFISH

Come to Whitefish. Your Year-Around Vacationland  
 This page of pictures run by courtesy of  
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# The Industrial Manifest of Montana

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## GENERAL INDEX

Advertiser's Index	7	Flathead County	88	Montana Aeronautics Commission	56-57
Agriculture	109	Flathead Lake	187	Montana Climate by Dightman	17-18-19-20
A Look at Montana	181	Forest Products by Kent Adair	73-74	Montana Inventors Association	71
Alphabetical Index of Products	244-248	Forward	201	Montana Pasadena Float	260
Alphabetical Listing of Manufacturers.		From Lewis and Clark Till Today	194	Montana Savings and Loan Association	50
Part one	203-204-205-206--207-208	Gallatin Valley in Color by Oliver H. Campbell	100	Montana State Planning Board Chart	30
A Montana Way of Life	193	Geographical Listing of Manufacturers.		Montana Vacationland by Glenn Chaffin	53
Amsterdam	105	Part two	209-210-211-212-213 214-215-216-217-218	National Forests in Montana	87
Area, Reservations, by Canon	266	Ghost Towns	190	New Horizons	268
Big Game Hunting in the Big Sky Country	256	Glacier Park	183-184-185-186	Nevada City	189
Bannack State Monument	182-191	Glacier Park Map	170	Our Churches Over the Past Century	196
Billings, Montana	167	Government by Dr. Payne	13-14-15	Payrolls	84
Bergan, K. W., State Co-ordinator of Indian Affairs	269	Governor's Greeting	4	Petroleum Story	37-38-39
Bitterroot National Forest	293	Great Falls Civic	65	Philleo Nash, Washington, D. C.	265
B. P. A. Areas and Transmission Facilities	255	Hamilton Civic	291	Population and Labor	42-43
Bill O'Neill's Outstanding Sketch of Butte	290	Hands Across the Border	252	Population, Reservations by Canon	266
B. P. A. Story	252-253-254-255	Helena Story	96	Production Surveys	12-97
Butte Civic	287	How to Use Directory	201	Publisher's Page	12
Canon Message	266-267	Hungry Horse Dam	254	Railroad Story	54-55
Capsule History of Montana	195	Indian Arts and Craft	268	Ranching in Montana "Don't Fence Me In"	122
Chapin Page	9	Indian General	283	Research by Sorvagg	27-28
Churchill	105	Industrial Financing in Montana	48	Reservations, by Canon	266
Crutchfield Church Story	102	Introduction	9	Robbers Roost	188
Columbia River Basin Map	253	Kalispell Industrial Air Park	91	Roy Porter, Western Artist	192
Commercial and Industrial Loans	49	Kalispell Lead Ore	88	Services Available	201
Communication by Frank Bell	70	Lake Mary Ronan	193	Smoke Jumpers	74
Congressmen, Battin	16	Libby Library	68	Standard Industrial Code	219-243
Congressmen, Olsen	16	Libby Map	252	State Planning Board	8-9
Contribution of Highways	58	Kerr Dam and Private Power Intertie	257	Taxation in Montana by Diehl	59-60
Council on Co-ops	157	Locating in Montana, Advantages	40	The Horizon for Montana B. P. A.	252
Custer Battlefield National Monument	180	Manhattan School	105	Treaty with Canada	252
Diversification, Plan of the Future	251	Mansfield Page	10	Trick Falls Lends Itself to a Way of Life	168
Economic Geography by Dr. Alexander	51	Manufacturers Directory	198-249-250	Virginia City	189
Education by Sletten	21-22-23-24-25-26	Manufacturers Association	62-63	Vigilantes	191
Electric Power and Gas by Setterstrom	31-32	Manufacturing by Montana State Planning Board	29	Water Resources by McOermott	41
Elk	293	Manufacturers Listings too late to classify	200	Whitefish Civic	2
Explanation of Listings	202	Metcalf	11	Yellowstone Park	170-177
Fair Time Scenes	160	Mining in Montana by Sahinen	33-34-35-36	Yellowstone Park Map	170
Fine Arts by Mike Kennedy	44-45-46-47	Missoula Civic	295	Yellowtail Dam	262
Fish and Game in Montana by Bob Cooney	52				

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The Industrial Manifest of Montana focuses on some of the most important elements of Montana's economic and governmental structure. Many who have sought to study the various aspects of the Montana scene have found that its scope is complex, diverse and widely dispersed. It is therefore the intention of this publication to bring all industrial factors into focus under one cover.

The elements that I have referred to above include Montana's variety and abundance of educational and cultural opportunities, to the thousands of people living in the state with professional and technical skills, and to its natural beauty and its well deserved reputation for uncrowded, leisurely living. Finally, I refer to the innumerable and relatively untapped natural resources which are currently receiving attention from some of the nation's largest producers.

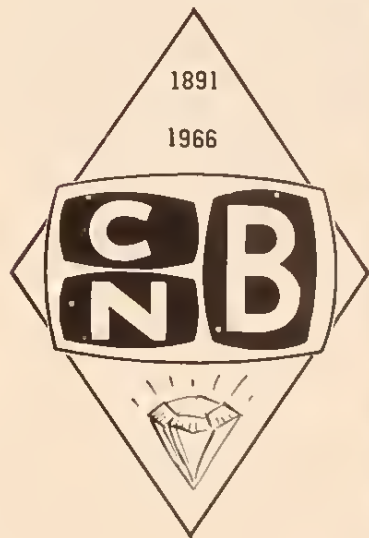
Montana can indisputably be referred to as the New Frontier, and indeed it is to those individuals who are seeking a better way of life together with a highly favorable business climate.

Montana's research activities are increasing at a tremendous rate, as is the case in many other areas of the United States. However, Montana's advantage over other states is that the associated professional personnel enjoy working in our "Big Sky Country," with its clean, clear air and great outdoors.

Please accept this as my personal invitation to explore the many opportunities Montana has to offer in research, resources and recreation. My office and the Montana State Planning Board will welcome your inquiry.

Sincerely,  
TIM BABCOCK, Governor  
State of Montana

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Bank  
OF KALISPELL



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WITH  
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BANCORPORATION



The  insignia is synonymous with practically all financial needs for industrial, commercial, agricultural, recreational and personal progress.

The collective experience and knowledge gained over three quarters of a century in this area can be of great help to you when contemplating any investment in our rapidly growing Northwest Montana.

Write, Phone, or better still — Drop in and talk things over





ABOVE: A BEAUTIFUL PART OF THE BIG SKY COUNTRY



AIR VIEW OF TWIN BRIDGES LOOKING EAST. CAMILLA GAGE'S REAL ESTATE OFFICE IS LOCATED IN THIS FRIENDLY WESTERN COMMUNITY . . .

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LEFT: CAMILLA GAGE WITH A "BIG ONE"

PRIZE WINNING CATTLE, HORSES AND SHEEP THRIVE IN SOUTHWESTERN MONTANA







## INDUSTRIAL MANIFEST 1966 Advertisers' Index

American Chemet	93	Dailey, John R. Inc	294	Holiday Motel, Helena	98-99	Missoula Sawmills, Inc	79	Shaw, Frank	117-120-126-127
American Smelting and Refining	94	DeLaney and Sons	81	Holiday Texaco	96	Missouri River Basin Power	163-164	Shaw, Harry and Son	117-120-126-127
Anaconda, The Company	61	Diamond Ring Ranch	146	Homesteader Galloways	113-154	Moes, Ed	150	Shaw, Ralph L.	117-120-126-127
Armitage, Jess C.	171	Diehl Lumber Company	82	Hope Ranch	138	Montana Casket Co.	287	Shaw, Vern	117-120-126-127
Ashenhurst, Gene T.	154	Dillon Ranch Supply	122	Hotchkiss Ranch, Inc	130	Montana Lumber Sales	81	Sheridan Electric Co-op	159
		Douhle Circle Ranch	139			Montana Power	199	Shumaker and Sons	146
Baker Chamber of Commerce	145	Dowlin Fulmer Ranch	136	Ideal Cement Company	30	Montgomery, Wayne	Back Outside Cover	Smart Logging, E. J.	77
Balock Excavating	261	Dupuis Brothers Lumber Inc	75			Mountain Manufacturing Co., Inc	72	Southeast Electric Co-op	158
Barry O'Leary	263	Dyksterhouse & Amsterdam Lumber	103	J and J Trucking, Inc	264	Mt. Lolo Lumber Company	81	Spackman and Son	117-120
Bayer, Herefords	173-176	Dykstra Holsteins	106	Jerlay Farms	107-113-154	Mussetshell Lumber Company	80	Steinland John Ranch	122
Big Horn County State Bank	262			Joe's Trading Post	272	Munson Realty	179	Stillwater Logging	79
Big Horn Fertilizer	286	Ectnu, Ray D. Sponsor of	114-115	Johnson Flying Service	66	Murphy's Big Sag Ranch	152	St. Labre Mission	273-274-275-276
Big Sky Motel	175	Hereford and Angus	171-172	Johnson, H. F. Inc	169	M-View Angus	111-113	Superior Fire Apparatus	91
Billings Banks	166	Economy Food Market Sponsor	77	Jorgenson's Holiday Inn Cafe	98-99	Myrdal Insurance	82	Swan River Tavern & Cafe	258-259
Billings Clearing House Assn	166	E. J. Smart Logging	81					Swan Valley Lodge & Trailer Park	258-259
Billings, Montana	167	Elkhorn Lumber	42	Kaiser Cement and Gypsum	63	Northern Cheyenne Tribal Council	270-271	The Terrace	258-259
Bitterroot Timber Industries	78	Empire Savings and Loan—Bozeman	42	Kalispell Pole and Timber	80			Thompson's Hardware	114-115
Blackfeet Tribal Council	281-282	Empire Savings & Loan, Livingston	42	Kamp Implement Company	104	Pacific Power and Light	90	Three Forks Commercial Feed Lot	111
Blue Anchor Cafe	175	E. S. Bar Ranch	153	Keith's Realty	60	Palm Ranch Co., Inc	147	Three Forks Manufacturing Co.	116
Blue Bay Resort	279	Evergreen Products	81	King Motel	175	Pasley Motors	288-289	Todd Ford Sales	171-172
Boles Aviation	263					Pehl Implement, Inc	117-120	Todd Jerley Farm	107-113-154
Bos and Sons Dairy Farm	110	Farley Ranch	140	Lambros Agency	295	Pierce Packing Company	165	T. P. Motel	114-115
Bos Bros, Gallatin	112	Felsheim, J. S.	117-120-126-127	Lanie Deer Mining	270-271	Philbrick Mac	137	Triple L Ranch	134
Boylan's Dairy Bar	111	Fergus Electric Co-op	158	Lambkins of Lincoln Bar	258-259	Philbrick Ranch	138	Twinn Bridges Commercial Club	173-176
Brannard, Harry, Ranches, Inc	129	First Federal—Kalispell	89	Leeper's Motel	258-259	Phillips, B. M. Ranch	152		
Braudex Corporation	70	First Madison Valley Bank	171-172	Lewis and Clark Trail Campground	258-259	Plum Creek Lumber	86	Union Bank and Trust	94
Bratten Ranch	153	First National Bank of Plains	178	Lewis Logging Company	77	Ponderosa Hardware	258-259		
Brewer Contracting	264	Flathead Tribal Council	277-278-279-280	Lewis, K. N.	280	Ponderosa Restaurant	258-259	Valley Garden Ranch	128
Broeder Bros. Lumber Company	83	Flathead Transfer & Storage	112	Lincoln Hotel and Trailer Court	258-259	Production Surveys of Montana	97	Valley Research & Development Corp.	91
Broken Arrow Cafe and Lounge	114-115	Free Enterprise Radium Mine	60-117-120	Lovell Clay	196	Prudential Realty Inc	95	Viking Lodge	Front Inside Cover 1-2
Brooks Bros	123-176			Ludwig, Sig Agency	89			Waite and Company	110
Brown, Les	132	Gage Realty	6-173-176	Lumber Enterprises, Inc	121	Quality Homes, Inc	95	Wagner, Mose Drilling	261
Bryant's Cafe	258-259	Gallatin Dairy Supply	107	Lund Feed Lot	151			Waldorf-Hoerner Paper Co.	86
		Gallatin Holsteins	112	Lund's Cottonwood Ranch	133	Ravalli County Bank	292	Whitehall Jr. Chamber of Commerce	117-120
Camas Bath House	278	Garrison Ranches, Inc	125	Lynch Flying Service	169	Ravalli County Electric Co-op	161	Whitehall Sawmill	80-117-120
Cherry Creek Sheep, Inc	139	George Guy	130-176			Reely Brothers Industrial Parks	Cover 3-296	Williams Ranches	142
Christie's Bridger Holstein Farm	111-113	Glacier Electric Co-op	162-281-282	Main Texaco, Whitehall	117-120	Robertson Ranch Company	150	Wilson Lo-Price Foods, Inc	68
Clay In Calico	117-120-121	Glacier Mountain Cheese Co	117-120	Manhattan State Bank	101	Rock Van and Storage, Inc	294	Wilson, Marvin, Ranch	122
Cockerham, Auburn	80	Greenleaf Land and Livestock	124	Matovich Ranches	141	Rocky Mountain Phosphates, Inc	48	Wyrick Ranch	147
Columbia Paint	93	Guest Photo Art	89	Maurer Realty	69	Roman, Ray and Clarence	148		
Conrad National Bank	5	Guild Arts and Crafts	276	McClure's Texaco	258-259	Ronan State Bank	277-280		
Co-op Supply, Inc	156			McCone Electric Co-op	159	Royal Logging Company	86		
Cornwell Ranch	143	Hall, Rush and Sons	145	McLees Sheet Metal, Inc	43			Yellowstone Pine Company	76
Crickets Self Service Laundry	270-271	Harmon Williams Farms, Inc	135	McRae Ranch	131	Savings and Loan Association	67	Yellowstone Valley Electric	165
Crow Industrial Development Comm.	284-285	Harp Line Constructors Co. Inc	92	Mike Quinn Ranches and Rodeo	129	Schroeder Feed Lot	151	York Construction	292
Curtis Breeding Service	110-154	Harris Land and Cattle	149	Missoula Carriage	85	Sears Valley View Holsteins	117-120		
				Missoula Electric Co-op	160	Simonson Ranch	144		

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# Montana State Planning Board



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## INTRODUCTION

by

**Samuel J. Chapman, Director  
Montana State Planning Board**

An early trader called Montana "The Land of Shining Mountains." Recently we have become known as "The Big Sky Country." Both of these names denote a particular "place" among the continental limits of the United States. However, in the minds of many people this vague description of Montana means a land of ice and snow somewhere in the Northwest, a land of cowboys and Indians who terrorize the settlers.

While we are enthusiastic about our western heritage and relatively recent pioneer history, we are equally proud of our fresh, new industrial atmosphere, which has made gigantic strides in the past few years.

Industrialists who look closely at Montana are finding that the state does not have the severe weather that one would be led to believe according to some newspaper headlines. Unfortunately, several of our weather stations are located in the very high mountains and their admittedly extreme low recordings have frequently dominated the weather reports. A factor which is just as noteworthy is that climatological studies prove that Montana actually has a milder climate than a number of highly industrialized areas of the midwest.

While we are zealous of our history and western character, we want to relate to the readers of this manifest the fact that we are a forward-moving state, interested in, and highly capable of, a modern and progressive future.

It is this modern Montana that invites you to visit and see for yourselves what our state has to offer. Visit our cities, our schools, our industries and even more important, meet our people. Add to this an analysis of our resources, transportation facilities, research capabilities, recreational opportunities, tax structure, our water and power supplies and you'll find you can't say "no" when it comes to Montana.

If there are any plans being contemplated within your company to increase activities in any area—products, distribution, research, resources, take a close look at Montana. If taxes, or politics are causing problems, again take a look at Montana.

The Montana State Planning Board (Economic Development Dept.) Sam W. Mitchell Bldg., Helena, Montana can supply you with facts, statistics and details. We merely want the opportunity of telling you what Montana can do for you.

If, after reading this publication, you have any questions, please do not hesitate to call on us for assistance.

**SAMUEL J. CHAPMAN, Director  
Montana State Planning Board**

We Invite You to Take a  
Long, Hard Look at Amer-  
ica's New Industrial  
Frontier



**SAMUEL J. CHAPMAN, DIRECTOR  
MONTANA STATE PLANNING BOARD  
SAM W. MITCHELL BUILDING  
HELENA, MONTANA**

**BELOW: PART OF MONTANA'S BEAUTIFUL CAPITOL COMPLEX.  
THE STATE PLANNING BOARD HAS OFFICES ON THE TOP  
FLOOR OF THE SAM W. MITCHELL BUILDING AT THE EX-  
TREME UPPER LEFT OF AIRVIEW**





Mike Mansfield, Senate Majority Leader  
Washington, D. C.

## WHY NOT INVESTIGATE THE OPPORTUNITIES IN THE INEVITABLE PROGRESS OF MONTANA?

Montana, a member of the Union for only a little more than three-quarters of a century, is truly the Big Sky Country. Montana is associated with space, ruggedness and initiative. It is these basic ingredients which make our State one of the most appealing. The development of these assets is just beginning to be fully realized.

Historically, our resources have been extractive in nature. The largest intra-state commodity is tourism and recreation. The resources and the attractiveness of the State combine to offer new industry the basic requirements and a perfectly good reason for wanting to locate in Montana—a blending of natural resources and ideal living conditions.

The Northwest is no longer isolated by its location. Communication and transportation are constantly improving. The education system in Montana is of the highest caliber. The intellectual community is eager for stimulation and the creative arts are among the finest. First and foremost, we have over 700,000 friendly, gregarious and energetic people.

Montana is prepared to advance economically along with the Nation as a whole. We invite new industries and corporations to see what the Treasure State has to offer. The Congressional offices in Washington, D. C. are most willing to assist in any way possible. The Big Sky Country is a land of opportunity, attuned to the times but cherishing commodities now at a premium—space, natural beauty, and individualism.

MIKE MANSFIELD  
Montana Senator

MONTANA IS TRULY THE TREASURE STATE.

WE ARE RICH IN RESOURCES AND RICH IN OPPORTUNITIES.

Our natural wealth and development potential have fascinated men for over two hundred years—Indians, explorers, trappers, traders, miners, railroad builders, timbermen, cattlemen and farmers. They have come and they have prospered.

The history of Montana has largely been a story of development. We have had mighty waters to harness, rivers and streams which run into the Columbia and down to the Pacific; into the Missouri and down to the Gulf of Mexico; into the St. Mary and up to Hudson Bay. We have built great dams, Canyon Ferry, Fort Peck, Hungry Horse, Noxon Rapids and Kerr Dam. Yellowtail is now rising.

We have forests that cover one-fourth of the state, copper reserves that are the largest in the nation and wheat fields which stretch as far as the eye can see.

Our clear lakes and streams, fed from snow-capped peaks, our timbered mountain slopes, make Montana a paradise for hunters and fishermen. Our scenic attractions are unequalled. Such resources have led to swift development of Montana. From less than 15,000 people in 1860, our population has grown to over 700,000.

But our natural wealth can support far more development. In the years ahead Montana can and should grow past all our present hopes. Standing as we are, on the last frontier, we are challenged with the orderly development, wise management and highest possible use of the natural resources with which we are blessed.

We who now have the good fortune to be Montanans hold out the hand of welcome to the new citizens who will come. We believe that they will find themselves, like the writer John Steinbeck, "in love with Montana."

LEE METCALF  
Montana Senator



Lee Metcalf, United States Senate  
Washington, D. C.





MONTANA—WHERE PROGRESS AND BEAUTY COMBINE TO INSURE "A WAY OF LIFE" THAT IS INCOMPARABLE

# The Industrial Manifest of Montana

Not since the gold rush days of a century ago has Montana attracted the attention of and drawn such increasing numbers of new people and new important investments from the entire nation. Montana is indeed proud of her rapidly expanding economy and happy that so many individuals and corporations are choosing this advancing area as their home.

One of the reasons for the tremendous industrial growth is a combination of practically unlimited hydroelectric power, clean, pure water, friendly business climate and the nation's finest scenic and recreational attractions.

Plants will find excellent sites close to huge reserves of natural resources and Montana's many attractions will guarantee that plant personnel, from executives down to the workers and their families, will enjoy living in the "Big Sky Country."

INVESTIGATE MONTANA — IT COULD MAKE THE BIG  
DIFFERENCE IN YOUR COMPANY'S FUTURE

Sincerely,  
Production Surveys of Montana  
Harold O. Leloff, Chairman  
Robert B. Sands, President

Where there is no vision, the people perish — Proverbs 29:19

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Ashion Printing &  
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Libby, Montana

Robert Reynolds  
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Kalispell, Montana

A REGIONAL SURVEY PRODUCED BY THE MONTANA STATE PLANNING BOARD AND PRODUCTION SURVEYS OF MONTANA  
DISTRIBUTION—NATIONAL, BY STATE PLANNING BOARD, HELENA, MONTANA — MONTANA DISTRIBUTION AND SALES BY PRODUCTION SURVEYS OF MONTANA

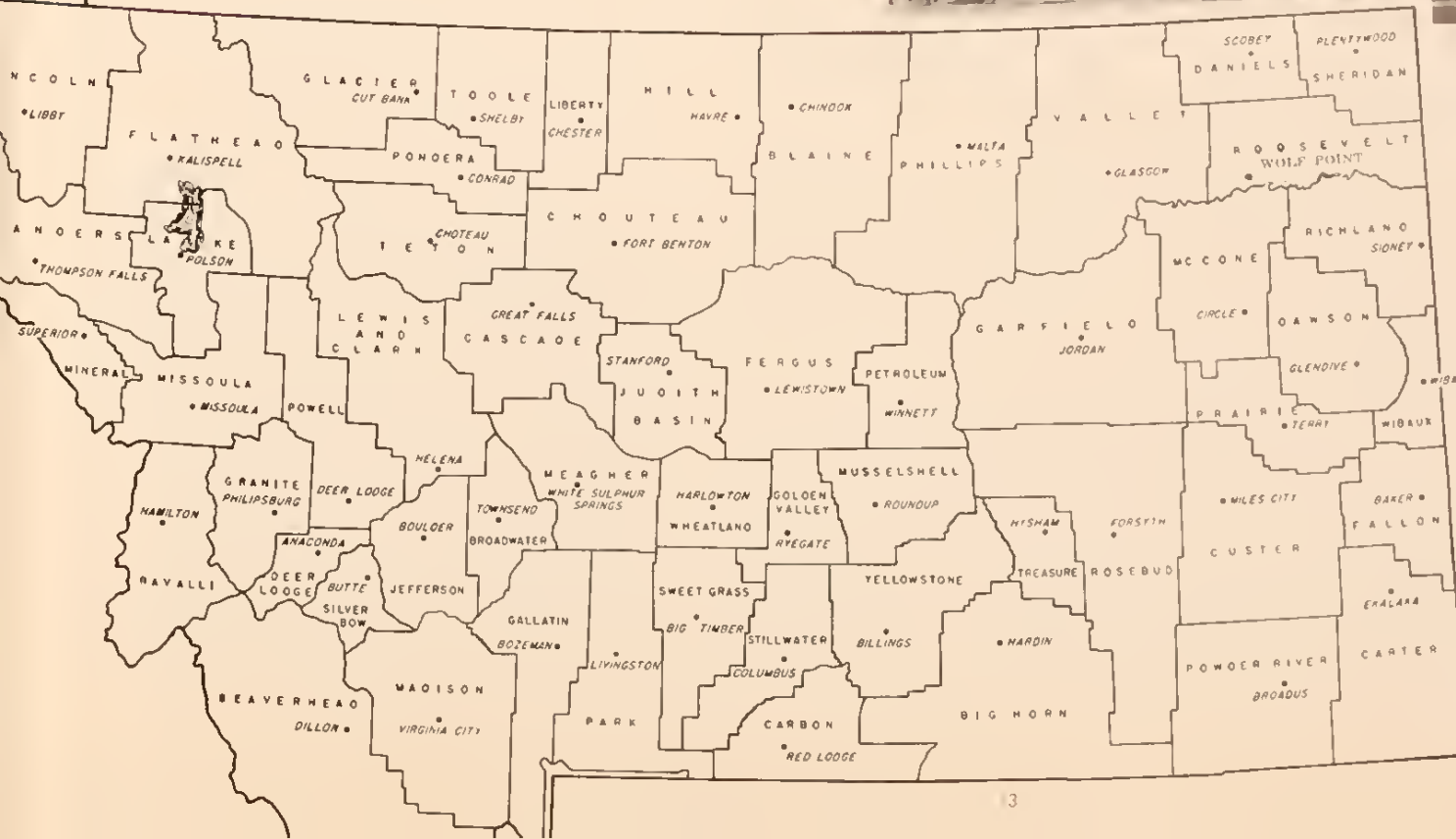
# MONTANA GOVERNMENT

BY

DR. THOMAS PAYNE, CHAIRMAN  
DEPARTMENT OF POLITICAL SCIENCE  
MONTANA STATE UNIVERSITY



MAP: MONTANA'S FIFTY-SIX COUNTIES AND COUNTY SEATS



ABOVE: MONTANA'S HISTORIC STATE CAPITOL BUILDING WHICH IS NOW SURROUNDED BY MANY MODERN DEPARTMENT STRUCTURES IN THE EXPANDING CAPITOL COMPLEX

MONTANA BECAME A  
TERRITORY IN  
1864

AND ATTAINED  
STATEHOOD IN  
1889

AS THE 41st STATE

The 4th Largest State With  
An Area of 147,138  
Square Miles

## GOVERNMENT

Governmental institutions in Montana bear a close resemblance to those found elsewhere in the United States, having been imported from the older states. Thus, the newcomer to Montana finds on every hand patterns of governance with which he is familiar from having lived in other parts of the United States.

Montana's governmental structure has evolved over the past one hundred years. Montana became a state in 1889, and prior to that had been organized as a territory for a quarter of a century. Prominent among political arrangements are a state government functioning with the capitol in Helena, fifty-six counties into which Montana has been carved, and numerous cities, towns, and a variety of special districts. Two important influences which shape Montana's governmental system are her state constitution and the system of political parties found in Montana.

Montana's constitution is a written document consisting of twenty-one articles and more than thirty amendments. The constitution, which is patterned after those found in a number of western states, and closely resembles that of California, contains a declaration of rights setting forth the basic guarantees of freedom for the people of Montana, and articles providing for the organization of state government. Specifically, provisions are made for an executive, a legislative, and a judicial branch of state government. These organs of government will be described in greater detail in the paragraphs that follow.

Like most American states Montana has a system of political parties, in which the dominant role is played by the two major parties, the Democrats and the Republicans. Neither party has been able to secure a permanent monopoly of political power, and Montana is properly classified as a competitive two party system. Montana voters are prone to cast split-ticket ballots, and generally follow national trends in their voting behavior. On only one occasion since the presidential election of 1900 have Montana voters failed to conform to national trends in presidential elections.

Both major political parties in Montana are organized according to state law with state and county central committees which are responsible for conducting campaigns and raising money to support party operations. Except for judicial and school board elections, which are strictly non-partisan, all election contests in Montana are conducted as a competition between the parties. By providing candidates for all major positions, both state and local, parties assume an important role in assuring some degree of responsible government in the state.

## STATE GOVERNMENT

Turning to an examination of state governmental structure in Montana it is appropriate to look first at the legislature, which is known officially as the Legislative Assembly. Typically it is bi-cameral, being composed of a Senate and a House of Representatives. Montana's fifty-six counties are the districts used in selecting both senators and representatives. Each county in the state is entitled to one senator, resulting in a Senate with fifty-six members. Representation in the House is based on population, although each

county is automatically entitled to at least one representative. Currently, the membership of the Montana House of Representatives stands at ninety-four representatives.

Biennial sixty day sessions in odd-numbered years are prescribed for the Legislative Assembly by the constitution. Special sessions may be called by the governor. Members of the House are elected for two-year terms and senators serve four-year staggered terms. Qualifications for service in the House include the following: age 21, American citizenship, and residence in the county for twelve months prior to election. Qualifications for Senate membership are identical except that senators must be at least 24 years of age.

The House of Representatives is presided over by a Speaker, elected from the membership, while the lieutenant-governor is the presiding officer of the Senate. The Speaker is generally a leading member of his party in the House of Representatives. Each house has its own set of standing committees.

For a bill to become a law it must pass both houses and also receive the signature of the governor. Bills vetoed by the governor can become law only if passed over his veto by a two-thirds vote in each house of the Legislative Assembly. The Legislative Assembly by a two-thirds vote of both houses may propose constitutional amendments, which become effective when approved by a majority of the voters voting in the election on this question. The Legislative Assembly may also, by two-thirds vote, propose the calling of a constitutional convention, which is convened if approved by a majority of voters voting on the question. No constitutional convention has been called since the adoption of the present, original constitution in 1889.

Among major reforms in the legislative process in recent years none is more important than the establishment in 1957 of a Legislative Council which functions as a kind of interim study body for the Legislative Assembly. Organized on a bi-partisan basis with six legislators and six senators the Council employs a staff of research personnel including an executive director and associates and studies major problem areas between sessions of the Legislative Assembly. In recent session Legislative Council recommendations have resulted in the establishment of an executive budget office, reorganization of a number of administrative agencies, and substantial improvements in the management of the state's financial accounts.

The executive department of government in Montana includes the governor and six other elective officers with whom the governor shares some of his executive authority. The governor, who is the most important if not the only member of the executive department, is elected for a four-year term. No limitation is placed upon his eligibility for re-election.

The formal powers of the governor are similar to those found in the constitutions of neighboring states. With respect to legislation the governor is given authority to recommend through messages to the Legislative Assembly. He may call special sessions of the legislature. He is also empowered by the constitution to veto bills passed by the legislature. Significantly, he also possesses the power to veto items in bills.

The executive powers of the governor include the power to appoint subordinate department heads, with appointments however, subject to senate confirmation, and the power to require information in writing from heads of departments. The governor may grant pardons, commutation of sentences, and reprieves, subject to approval by a board of pardons, the members of which are appointed by the governor. The governor is commander-in-chief of the state militia and has the power to call it out to aid in the enforcement of laws, in suppressing insurrection, or repelling invasion.

Inasmuch as the governor of Montana, under the constitution, shares his executive power with a number of other elected officers, the tradition of a strong governor in Montana has only begun to develop. The fact that there are six other independently elected officers with whom the governor shares executive power — namely, the lieutenant-governor, the secretary of state, the attorney general, the superintendent of public instruction, the treasurer, and the auditor — definitely dilutes and divides executive authority in Montana.

As an administrator the governor shares some of his power with the Board of Examiners of which he is one of three members. This board is important because it has final authority to settle claims and accounts against the state. However, the governor's administrative position has been strengthened substantially since 1959 by the establishment of an executive budget with the creation of the office of director of the budget, to whom all proposals for spending must be referred before being submitted to the Legislative Assembly as appropriations request. The budget director, who is appointed by the governor, has authority to supervise expenditures.

While some progress has been made in the direction of administrative reorganization Montana's administrative structure is characterized, as are those of many other states, by the prevalence of a large number of separate offices, departments, boards, and commissions which function in the state's administrative system. With respect to type of agency, there is considerable variety. If, for example, agencies and offices are classified by method of selection of personnel a number of practices occur. There are, in the first place, a number of elective officers in boards, as, for instance, the governor and the board of railroad commissioners. Some ex-officio boards are provided for by law or constitutional provision, including, for example, the board of examiners and the board of pardons. There are a host of appointive boards and offices. While the governor has authority to appoint the members of most agencies and departments his ability to exercise effective control over them depends upon authority which often has not been provided in the constitution or by the Legislative Assembly. Considerable progress has been made in recent years towards strengthening the position of the governor, but he still lacks the means to provide effective administrative supervision and control over all agencies of state government.

The third branch of government in Montana, the judiciary, closely resembles the judicial systems prevailing in other states. The system of courts includes a five-member Supreme Court and eighteen district courts, plus the customary municipal and justice of the peace courts. The Supreme Court is chiefly a court of appellate jurisdiction, while cases of importance are tried



in the first instance in the district courts. Montana judges are chosen by popular election on a non-partisan basis. Supreme Court justices are elected for six-year terms; district court judges serve terms of four years.

The attorney general and clerk of the Supreme Court are other officers who are a part of the judicial branch of government. These officials are chosen by state-wide election. In each county there is a county attorney and a sheriff. These law enforcement officers function as adjuncts of the judicial system in their respective areas. So far it has been unnecessary to establish a system of intermediate appellate courts in Montana.

#### LOCAL GOVERNMENT

Fifty-six counties which have been carved out of Montana share some of the governmental responsibility under state supervision. There are also incorporated cities and towns and numerous special districts. The latter fall chiefly into two categories with respect to their function — education and irrigation. The general trend in the provision of governmental services has been in the direction of the state assuming greater responsibilities either directly or through closer supervision of local units.

The present distribution of responsibility for governmental services in Montana may be described briefly. Elementary and secondary education is a responsibility of special school districts with, however, ever increasing pressure for state support. Law enforcement, fire protection, construction and maintenance of local public works, and local park and recreation programs are undertaken by cities and counties. State government in Montana assumes the direction of the system of higher education, the construction and maintenance of principal highways, the provision of public assistance and other welfare programs, the conservation and development of natural resources, and the operation of health and correctional institutions.

Counties are legal creatures of the state, established under constitutional and statutory authority as administrative units of government for the convenience of the state. In addition to performing certain local governmental functions, counties serve the state as election and judicial divisions and as tax collecting agents. Counties exist only at the pleasure of the state and possess no powers not granted them by the state. The powers of Montana counties are set forth by law and may be exercised only by the board of county commissioners or their agents, except as designated officers may be empowered by law to act in the absence of orders by the commissioners.

The work of county government is carried on by a number of elected county officials whose activities are, to only a limited extent, supervised and coordinated by the board of county commissioners. The board, whose three members are elected for six-year overlapping terms, have limited powers as makers of public policy but must operate within the confines established by Montana law. Among their principal powers are those of taxation and adopting a budget and appropriating money to the various departments of county government.

In addition to the board of county commissioners each county is required to have certain other officials, including a county clerk, a sheriff, a treasurer, an attorney, a surveyor, a coroner, a public administrator, an assessor, and a superintendent of schools. In addition, counties of the first three classes are required to have an auditor. All of the officials are chosen for four-year terms by voters of their respective counties in the November general election, following an August primary at which each party may nominate candidates it will support in the election.

Efforts at improvement of county government in recent years have centered on the possibility of adopting the county manager plan of government, as well as consolidating counties, and consolidating cities and counties in some cases. Thus far only Petroleum county has adopted the county manager plan of government. A number of other counties in the state have considered or are considering such a plan. Its adoption would tend to simplify considerably the organizational structure of county government and place it under one effective supervising head.

City government in Montana also resembles that typically found in other American states. By law three forms of city government are made available under general charter plans. The voters in any incorporated city are free to choose any one of the three forms of city government.

The form most generally employed in Montana has been the mayor-alderman plan of city government. All but two Montana cities employ this plan. Under this arrangement the city is divided into wards, each of which chooses two aldermen to serve for two-year terms. The voters of the city at large choose a mayor, a treasurer, and a police judge. Most of the powers of city government are shared by the mayor and the council. The mayor functions as the chief administrative officer and the council as the principal policy making body in the city.

Two Montana cities, Bozeman and Helena, currently employ the commission-manager form of city government. Under this plan the voters choose a commission (or council) of five members at large. The commission in turn employs a professional city manager who presides over the entire administrative establishment of city government and is directly responsible to the commission which functions as a policy making body. No city in Montana now employs the third option, the commission form of city government.

#### PROSPECTS

In an essay dealing with Montana governmental institutions it is appropriate to consider both strengths and problem areas in state and local government. In this respect Montana political institutions do not differ significantly from those found in other states. They display some of the same strengths. They also suffer some of the same weaknesses. A discussion of some of the strengths and weaknesses may help put the picture of government in better perspective.

Five areas of strength in Montana's system of government are discussed below.

(1) All levels of government in Montana display marked stability and a capacity to survive in the face of difficult problems. They remain going concerns in spite of such recent catastrophes as floods and occasional severe weather conditions.

(2) All levels of government in Montana invite and elicit a considerable amount of citizen participation. Experiences in local government provide citizens with direct participation in democracy and tend to equip them better for participation in other levels of government.

(3) All levels of government in Montana have displayed a capacity to solve most if not all of their vexing problems with sufficient effectiveness to maintain an ongoing political system.

(4) To varying degrees all levels of government in Montana are characterized by a representative quality, that is, governmental institutions do represent the viewpoints of the citizens of this state. Citizens are also able to be heard at all levels. The sparse population of Montana makes it possible for all citizens to be on a position of close and cordial relationships with all from their most high ranking officials down to local governmental officials. It is not uncommon for Montanans to be on a first-name basis with leading state officials.

(5) Considerable progress has been made in Montana in recent years towards strengthening and revitalizing governmental institutions. Reference has been made to the establishment of a Legislative Council and an executive budget at the state level as well as other reforms designed to strengthen state government. At the local level of government important progress has been made with respect to planning. In the field of education, discussed elsewhere in this report, substantial progress has also been made. Perhaps more encouraging, there are in all principal communities around the state large numbers of citizens who take an active interest in finding ways to strengthen governmental institutions. As a result of these efforts, Montana government will continue to improve its quality of service and meet the demands that the times continue to impose.

Certain problem areas remain to be solved in Montana. Many of these are problems existing in other states as well. Among the more significant problems to which Montanans are now addressing themselves and for which they seek solutions, are the following:

(1) The reorganization of state government has been considered by the Legislative Council for the past eight years. While some progress has been made in this direction, much remains to be done in reducing the number of agencies, offices, and departments to a more manageable number.

(2) Like many other states Montana is currently confronted with the need to reapportion its state Legislative Assembly. It seems likely that some solution to this problem will be found within the next year or two. After reapportionment it will also be necessary to find ways of reforming and strengthening the Legislative Assembly in other respects.

(3) Montana city governments need to be strengthened in a number of respects. Financing city government has become a major problem in this state. The introduction of the city manager plan of government for more major cities in Montana may ultimately be an answer.

(4) County government in Montana is also in need of reforms. The introduction of the county manager plan of government now under consideration in a number of counties may be a step forward. Meanwhile with the growing urbanization of the state, city-county consolidation in some counties may provide a satisfactory solution to this problem.



Congressman  
ARNOLD OLSEN  
1st District  
Montana

## MONTANA'S MOST VALUABLE RESOURCE — ITS PEOPLE

Montana is famous for its vast resources. The great material riches such as the extensive copper mines, the vast forests, and the magnificent rivers which have unlimited hydroelectric power potential speak well for themselves. What is often overlooked in this state of treasures is Montana's most valuable resource — the people of Montana.

The state has always placed a premium on human capital. This is reflected in its high regard for education, for Montanans are very proud to have one of the highest educated populations of any of the states of the Union. Montana spends an average of \$516 on each pupil each year, ranking 13th in the country. With a population of some 700 thousand, the state can boast a wide-spread system of higher education, involving six state institutions of higher learning, and four private colleges.

In addition to this growing University System, the state provides an excellent primary and secondary educational system. These local schools are also used for a growing adult education and training program.

Montanans are aware of the potential and bright future which its vast riches envision but they also know that skilled and intelligent management of these riches is a vital necessity. The future of Montana lies in the minds and hands of Montanans, and the state is ensuring this future by providing the best schools for its people.

ARNOLD OLSEN



Congressman  
JAMES F. BATTIN  
2nd District  
Montana

## THE FUTURE IS BRIGHT FOR THE NATION'S FOURTH LARGEST STATE

Certainly Montana's future for business and industrial expansion is bright. The nation's fourth largest state is rich in both natural and human resources for the development of many types of industry. The advantages Montana has to offer—and sell—may not be as attractive to so-called heavy industry in the foreseeable future as the offerings of other states. But as science and technology hurry at a breathless pace into the space age, Montana with her countless resources, coupled with the vigor of a well-educated youth, has much to offer.

Montana's educational system is doing a magnificent job of training the state's youth not only in the scientific, engineering and technical skills and proficiencies, but also in the equally essential humanities so necessary for today's complexities.

Montana has always prided herself on the vigor and resourcefulness of her people, their hospitality and western friendliness. Many Montanans have achieved eminence in national endeavors of every kind and the present youth of Montana may well share not only in an expanding Montana industry, but also in encouraging and establishing such industry. For the type of industry Montana may well attract, the type and quality of Montana youth could be the main attraction and inducement to many new areas of endeavor.

Montana's State Planning Board is doing an excellent job in coordinating the efforts of business, industry and government in selling the state's advantages. The competition with other states is, of course, intense. But Montana's scenic beauty and year-round outdoor recreation are second to none. Montana is a good place to live.

The natural advantages of our great state, plus an aggressive and realistic approach to the type of industry we may best develop and attract, hold real promise for Montana's future.

JAMES F. BATTIN

## MONTANA CLIMATE

By R. A. Dightman, State Climatologist

Within any given area of more than 146,000 sq. mi., climatic variations of some size should be expected, and even a cursory review of Montana's climate records more than meets such expectations. The State's 146,316 sq. mi. area contains a very complex topography which probably is more important in determining climate patterns than any other factor. It seems appropriate, then, to first review some of the features of Montana's mountain-valley-plains structure which are germane extending from the Canadian Border north of Kalispell roughly south-southeastward to just west of Helena, then southwestward to the Idaho border near Gibbons Pass where it coincides with the Idaho border to just south of West Yellowstone. West of the Divide it is quite mountainous, with many deep valleys and high ridges. There is no general direction pattern to these valleys and ridges, except that valley elevations decrease roughly from southeast to northwest.

East of the Divide the topography is even more widely varied; very mountainous south and west of a line from southeast of Billings to northwest of Cut Bank, but largely rolling plains and hills to the northeast. There are scattered mountains even in the so-called plains area, however, including Sweetgrass Hills, Bear Paw, Snowy, and Little Rocky Mountains, and some rough country along both sides of the Missouri River from Ft. Peck Dam site upstream to Great Falls. As these features become important to climates of particular locations they will be treated more specifically.

There are many elements necessary to describe fully any climate. Here the descriptions are confined to some of the more common items including temperature, precipitation, cloudiness, sunshine, freeze data, snowfall, and wind, although descriptions of such elements as potential evapotranspiration, net radiation, soil temperature profiles, etc., would be necessary to a comprehensive discussion. Where mentioned, temperature is in degree Fahrenheit, precipitation is in inches, cloudiness in tenths of sky cover, sunshine in percentage of possible, snowfall in inches, wind in miles per hour (mph), and freeze free periods in days between specified temperatures values, and humidity in percentage of possible water vapor content.

In a very basic sense the climate of an area should be considered a fundamental natural resource. In records of rainfall, temperature, etc., one can define probabilities with many agricultural and industrial applications, such as potential water supplies, growing seasons, building design requirements, road construction, heating needs, etc., not to mention such recreational possibilities as boating, fishing, travel, winter sports, etc. Like any natural resource, there are important features of Montana's climate which can and should be exploited (water power, irrigation water supplies, sunshine, very desirable summer weather, etc.). There are others (occasional severe cold, wind, hail, etc.), which require careful handling even though they are necessary to an overall appraisal of the climate resource and may even help establish and maintain exploitable phases (i. e., winter sports require some cold weather, winter snows provide summer water supplies, etc.). Viewing climate in the sense that it is a renewable natural resource appears to be a good way to assess its importance to the overall economy.

### TEMPERATURE

One of the elements most commonly used to define climate is temperature. In Montana, where temperature variations are large both in time and space, it is necessary to view these variations against the background of an extremely mountainous country, ranging in elevation from about 1,800 ft. above sea level where the Kootenai River enters Idaho to 12,799 ft. at the summit of Granite Peak just north of Yellowstone Park. The Continental Divide has a marked influence in several ways. Perhaps the most important and most dramatic effect is its shielding of the Columbia Basin portion of the State from most of the winter cold waves that visit Central and Eastern Montana each year. In this sense the climate of Eastern Montana is classified as continental, while West of the Divide it is closer to a modified North Pacific coast type. On the other hand, eastern slopes experience warm "chinook (foehn)" winds several times each winter.

On the west side of the Divide winters are not so cold, summers average cooler in most cases, and winds are generally lighter than on the east side. The lack of wind and the narrower, deeper valleys on the west side result in cooler night-time temperatures during summer months. For example, Thompson Falls afternoon highs in July average about 88 degrees, but it cools to an average early morning low of just under 50 degrees. The contrast between areas on both sides may be noted by choosing Glasgow on the east side, at about the same elevation and latitude, but in a much less sheltered valley, where July highs average 85 degrees, and the lows, 56 degrees.

A few comparative temperatures are shown in the accompanying table.

Station	Average Temperatures (30 years)				Extremes of Record			
	Maximum		Minimum		All Years		All locations	
	Jan.	July	Jan.	July	Jan.	July	Max	Min
Billings	33.2	88.5	13.1	57.8	23.2	73.2	112	-49
Butte	28.0	79.8	0.4	45.0	14.2	62.4	100	-52
Glasgow	19.6	85.3	-0.1	56.1	9.8	70.7	113	-52
Great Falls	31.6	83.7	13.5	56.1	22.6	69.9	107	-49
Havre	25.8	86.3	5.6	53.6	15.7	70.0	108	-57
Helena	28.8	84.4	8.4	52.3	18.6	68.4	103	-42
Kalispell	25.6	82.7	9.0	48.6	17.3	65.7	97	-38

Miles City	27.4	90.2	5.6	60.4	16.4	75.3	110	-49
Missoula	28.0	85.0	10.0	49.0	19.2	67.0	105	-33
W. Yellowstone	24.8	80.9	-1.4	38.0	11.7	59.5	97	-68

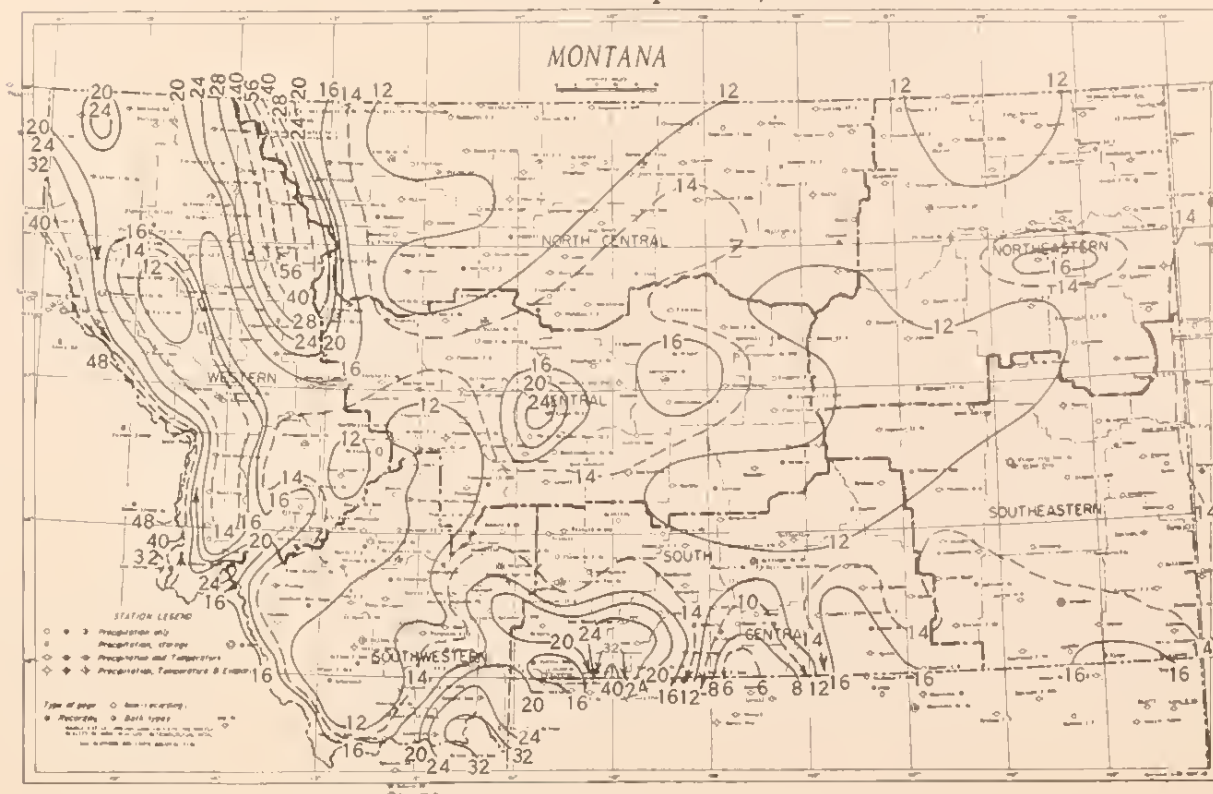
Maps showing the general distribution of mean maximum and mean minimum temperatures, statewide, for January and July appear elsewhere.

Average Number of Days Per Year						
Station	Maximums		Minimums		Aver. Annual Degree Days	Av. Freeze Free Period between
	90° or warmer	32° or colder	32° or colder	0° or colder		
Billings	33	41	140	19	7083	132 16°
Butte	5	62	227	44	9760	81 125°
Glasgow	23	74	179	41	8996	124 141°
Gr. Falls	16	46	145	23	7531	135 161°
Havre	28	52	174	35	8685	138 158°
Helena	14	32	181	26	8129	134 161°
Kalispell	19	53	190	18	8630	135 174°
Miles City	39	58	172	32	7723	150 170°
Missoula	24	51	191	15	8125	112° 152°

\*Missoula Freeze Data from Missoula 2NW

\*Missoula Freeze Data from Missoula 2NW

### Mean Annual Precipitation, Inches



Based on period 1931-55

Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps, particularly in mountainous areas.



The coldest of record, -70 degrees at Rogers Pass January 20, 1954, was measured in a saucer-like small basin near the crest of the Continental Divide, under ideal conditions for producing extreme cold. Such situations are not common, and maximum cooling occurs only in limited favorable (for cooling) areas.

Annual average temperatures range from 35 degrees at West Yellowstone to about 48 degrees at several warmer locations, such as Big Timber, Thompson Falls, Holter Dam, and to warmer than 45 degrees over about half of the State. It should be noted that winter AVERAGE temperatures are generally not nearly as low as a fairly general impression has supposed them to be. In fact, winter averages over nearly all Montana are several degrees warmer than in the Dakotas, Minnesota, Northern Wisconsin, and compare favorably with Northern Michigan, Southern Wisconsin and similar areas. The primary differences are that "cold wave" extremes can be a little colder in some of Montana's mountain valleys, and a Montana winter's coldness is usually not very steady — being interrupted by frequent relatively warm spells of several days in duration.

Heating degree day requirements, an important weather measure to industry (as well as all who use heating equipment), range in Montana from 10,910 at the resort city West Yellowstone, to 6,656 at Thompson Falls and less than 7,000 in several fairly large valley areas on both sides of the Continental Divide. Annual heating requirements for most Montana cities range from 7,000 to 8,500 degree days. Except in some of the higher mountain valleys, heating requirements in general run measurably lower than in areas at similar latitudes eastward as far as the Great Lakes.

In most of the more densely populated parts of the State, growing season length ranges from 4 to 4½ months — if we define the growing season as the average number of days between last and first freeze (32 degree F.)

occurrences in spring and fall. A few representative average growing season length (in days) appear in the right-hand column of Table 1a above. Note that Miles City has an average growing season 5 months long.

#### PRECIPITATION

A second extremely important part of the climate resource is precipitation in all its forms. The mountainous country along both sides of the Continental Divide, including such ranges as Big and Little Belt, Crazy, Bridger, Highwood, Absarokee, etc. Mountains, as well as the many ridges West of the Continental Divide, supplies orographic lift sufficient to result in these areas being the State's wettest. However, there are important local lee side rain shadow effects, and the State's driest areas (although small in size) are found in parts of some sheltered valleys. Examples are found in southeastern Sanders County, much of the Deer Lodge Valley, several valley bottoms near and south of Helena, and along the Wyoming border south of Billings, where some annual average totals are well below 12 inches.

Conversely, the State's wettest sections are associated with mountain or hill locations. Near Grinnell Glacier in Glacier National Park, annual totals (probably falling mostly as snow) have averaged about 105 inches for a 15-year period, and areas averaging 40 inches or more include the Northern Rockies south about to Gibson Dam west of Great Falls, the Bitterroot Range from southwest of Libby to lower Ravalli County, and some Montana sections near and in Yellowstone National Park. Approximate annual total precipitation lines have been drawn on the accompanying map showing the wide variations in moisture received — sometimes within a distance of only a few miles.

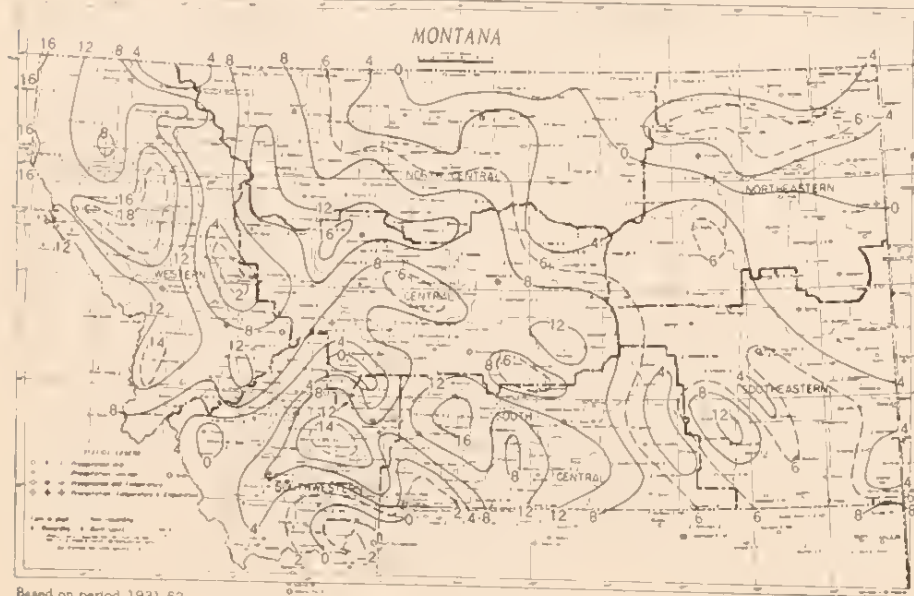
In the table below are listed some representative precipitation data for selected stations:

TABLE 2

Station	Annual Prec.	Annual Snowfall	Wettest Aver. Month	Annual Ave Days precip		
				Oriest Aver.	01 or more	
Billings	13.23	53.0	June	2.55	Jan	0.54 93
Butte	11.48	50.6		2.42	Jan.	0.42 107
Glasgow	12.27	36.2	in	2.98	Feb	0.41 82
Great Falls	14.07	53.5		2.90	Dec	0.60 98
Havre	11.87	37.1	all	2.73	Feb	0.43 78
Helena	10.85	47.6		2.23	Feb	0.43 97
Kalispell	15.42	66.0	cases	2.21	Mar	0.96 131
Miles City	12.17	29.4		2.71	Feb	0.37 88
Missoula	12.83	43.3		1.91	Aug	0.72 123
W. Yellowstone	21.22	155.2		2.44	Sep	1.17 —

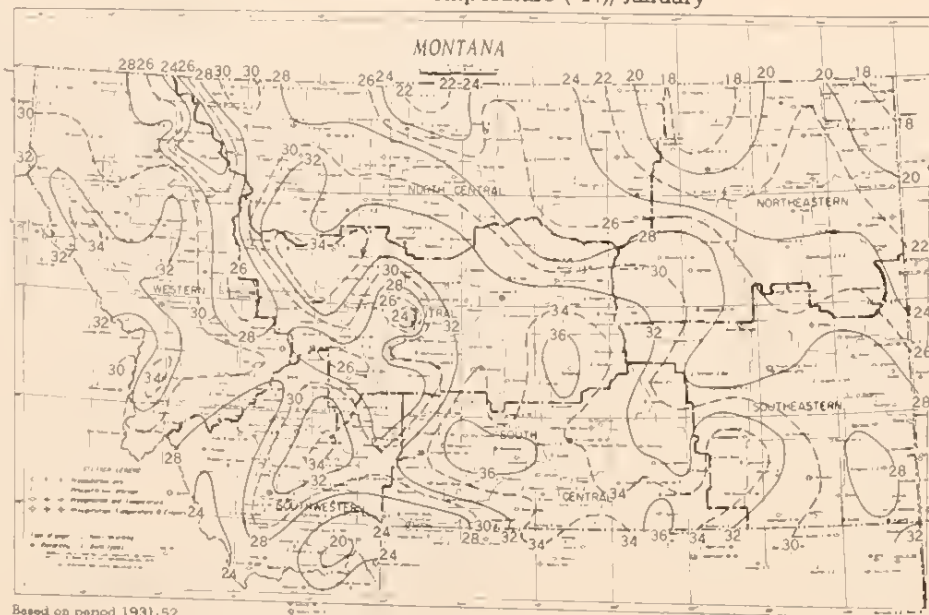
Except for a narrow strip along Bitterroot and Continental Divides, late spring and early summer are the "wet" season. In fact, in nearly all areas, almost half the yearly average falls during the three months May through July, contributing an important climate boost to Montana's standing as one of the leading producers of dry-land grain crops. May and June rains often are of the steady "soaking" type that provide maximum soil moisture build-up, while late summer rainfall is more showery. Midwinter precipitation falls mostly as snow, but annual snowfall in the more densely populated areas (see Table 2) runs about 50 inches a year, but with some variation, as the table shows. Snowfall over the western mountains usually is substantial, running as high as several hundred inches a year in the more favorable sections. It is along some of these mountains that winter precipitation (water content of snow) is the heaviest of any season, and the resulting mountain snow fields furnish a quite dependable (but with annual variations in supply) water source for irrigation, power, and many municipal systems.

Mean Minimum Temperature (°F.), January



Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps, particularly in mountainous areas.

Mean Maximum Temperature (°F.), January



Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps, particularly in mountainous areas.

The combination of late spring snow melt and rainy months in most years will fill most reservoirs and produce bankfull or nearly bankfull stages in most mountain-fed streams. In an occasional year heavy late May or early June rains coming on top of mountain snow melt may cause some rivers to overflow to flood stages of variable seriousness. The most damaging flood of this type in Montana history occurred in 1964 in the Sun, Teton, Marias, and Middle Fork of the Flathead drainages. Heavy showers during the summer sometimes cause local flash flooding, but these usually affect only small areas at any one time, and in any particular locality must be classed as rare occurrences. During an occasional winter cold spell, ice jams can cause troublesome flooding, but because rivers usually carry their lowest flows in the coldest weather, such flooding is seldom serious. During the spring break-up of river-ice some ice-jamming can occur, but here again consequences are seldom serious.

Winter snows on western mountains have supported an increasing number of winter sports (primarily skiing) areas over the last 20 years or more. These resort areas have found snowfall sufficiently dependable from year to year to warrant quite an investment in tows, chair lifts, and other services.

#### CLOUDINESS — SUNSHINE:

As is the case with the climate variables discussed above, Montana's topographical complex of valleys and mountains has important effects on cloudiness and sunshine. In general, the western and south central mountain areas experience more cloudiness and less sunshine than the eastern slopes and so-called plains sections. The most important exception to this pattern is found in Western Montana valleys, mainly in fall and winter seasons, with valley fog and low clouds forming during periods of otherwise clear sky and low wind movement. This phenomenon occurs in such valleys as the Clark Fork of the Columbia, Kootenai, and Flathead several times each season and can persist for several days at a time while surrounding mountain ridges and passes are experiencing bright, clear weather.

TABLE 3

Station	Possible Sunshine (%)			Mean Cloudiness (tenths of sky covered)		
	Jan.	July	Year	Jan.	July	Year
Billings	51	78	63	6.9	4.0	6.1
Butte		*		7.0	4.5	6.6
Glasgow		*		6.8	4.8	6.3
Great Falls	53	79	64	7.0	4.0	6.4
Havre	55	78	66	6.7	4.1	6.1
Helena	52	79	62	7.3	4.0	6.4
Kalispell	28	77	53	8.6	3.6	6.9
Miles City	52	80	62	6.8	4.0	5.9
Missoula	31	79	53	8.2	3.6	6.9

\*Sunshine records not available

The range between duration of sunshine Jan. — July is easily discernible from the above listing, but it is most pronounced West of the Continental Divide, where, for example, Kalispell normally has three times as much sunshine in July as in January. Except for West of the Continental Divide where the sun shines a little more than half the time, more than half the State has sunshine almost two-thirds of the time during an average year. The cloudiness data shown above reveal approximately the same characteristics — cloudiness varies less with season East of the Continental Divide than West where summer cloud cover averages less than half that of winter.

#### WIND.

Wind variations across the State are fairly large. From very low average wind speeds in much of the country West of the Continental Divide, fairly

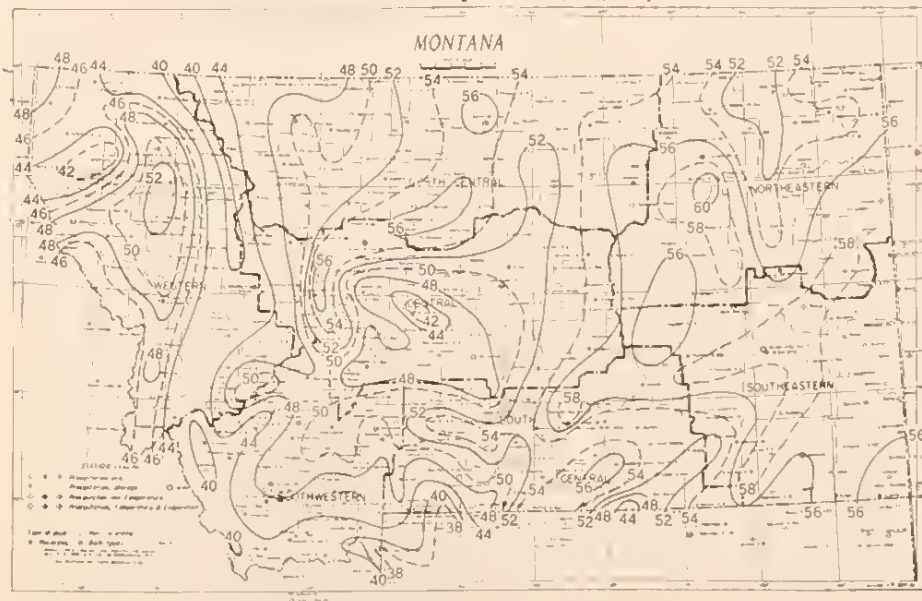
brisk wind country prevails along eastern slopes. In middle parts of Missouri, Milk, Sun, St. Mary and Yellowstone River drainages wind movement is considerable, averaging as much as 15 m.p.h. or slightly more in the more windy areas. In contrast, some Western Montana valleys have average wind speeds of 6 m.p.h. or even a little less, reflecting the stagnant high stratus fall-winter condition described under "CLOUDINESS" above. Average mid-winter and midsummer wind speeds are shown in the following table for selected locations.

TABLE 4

Station	Average Wind Speed			Fastest Mile Year	
	Jan	July	Year	m.p.h.	Sample
Billings	12.9	9.8	11.4	73	20
Butte	7.4	8.2	8.1	-	8
Great Falls	16.8	10.4	13.7	82	20
Havre	8.8	7.2	8.2	59	4
Helena	6.7	8.0	7.9	73	23
Kalispell	9.1	7.2	7.6	-	3
Miles City	9.1	9.8	10.0	-	14
Missoula	4.9	6.6	6.0	72	19

On the basis of other wind records (not summarized in the above form) even higher one-mile speeds have occurred at such points as Cut Bank and Livingston, where peak gusts have been observed, from official wind instruments, to have exceeded 100 m.p.h. several times in a period of about 25 years. Most of the higher wind speeds have been observed from westerly directions at these points, but strong winds are possible from any direction, although the frequency of occurrence is not high.

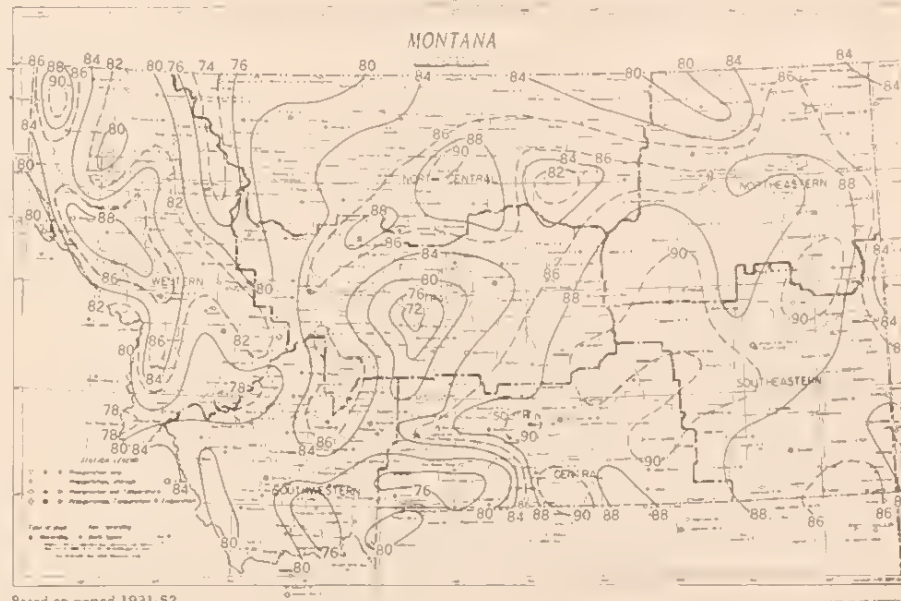
Mean Minimum Temperature (°F.), July



Based on period 1931-52

Isotherms are drawn through points of approximately equal value. Caution should be used in interpolating on these maps, particularly in mountainous areas.

Mean Maximum Temperature (°F.), July



Based on period 1931-52

Isotherms are drawn through points of approximately equal value. Caution should be used in interpolating on these maps, particularly in mountainous areas.



The commonly encountered daily variation, with greatest wind movement during midday and least during the night, applies throughout Montana except during the more well-developed storm conditions, and except over some of the higher mountain ridges. The "chinook" wind, referred to briefly under "TEMPERATURE," is a fairly common phenomenon along eastern slopes, and is the primary reason for the fairly high average wind speeds at such east slope cities as Great Falls, Cut Bank and Livingston. The winter warmth of this wind is largely accounted for by its effectiveness in replacing the cold air mass, its dynamic warming as it moves downslope, and its inhibiting effect on the normal tendency toward formation of inversions.

#### HUMIDITY

The "humidity" most commonly used in this type of discussion of sensible climate elements actually is "relative humidity," defined as "the ratio of the actual vapor pressure (vapor content) of the air sample, to the saturation vapor pressure (vapor content)", or, roughly, the percentage derived from the actual water vapor divided by the maximum possible water vapor content, with 100 percent meaning saturation. It is a difficult element to cover simply in summary form, but it should be noted (from Table 5 below) that oppressive levels of relative humidity seldom occur during Montana summers. In fact, in most of Western Montana, uncomfortable combinations of relative humidity and heat are practically unknown.

Humidity data for a few key points are summarized in the following table

TABLE 5

Station	Relative Humidity 5 a.m.			5 p.m.		
	Jan.	July	Year	Jan.	July	Year
Billings	67	65	69	60	32	48
Butte	76	82	81	71	33	52
Glasgow	85	70	76	80	30	51
Great Falls	66	63	67	61	30	46
Havre	82	75	80	78	35	55
Helena	72	71	74	66	32	49
Missoula	81	77	82	75	30	53

Relative humidity above 90 percent when it is observed, usually is associated with calm, dewy or foggy mornings which are fairly common in Western Montana valleys during fall and winter seasons. But it will be noted, from reference to the above table, that afternoon relative humidity fails to average as high as 80 percent at any principal population center even in the midwinter month of January. At the other end of the scale, summer afternoon relative humidity averages from 29 to 35 percent, and this range of values will apply to nearly all the state's 147,000-odd square mile area. In western forests, in fact, summer afternoon dryness may create a dry forest fire hazard lasting a month or more in an occasional year. This condition is most likely to occur July-September. In summary, relative humidity averages are not extremely low (dry) during the summer, nor are they high (wet) during late fall and winter when compared to almost any other state in the northern half of the U. S.

#### MISCELLANEOUS NOTES

Extremes observed in Montana, in addition to the -70 degree coldest at Rogers Pass, include:

Highest temperatures at any point 117 degrees at Medicine Lake July 5, 1937, and at Glendive July 20, 1893.

Lowest average annual precipitation, Helena 6 miles north, 9.68 inches. Greatest average annual precipitation: Heron 2 miles west, 34.34 inches

(these two stations are driest and wettest of those with 30 years or more of record. For shorter periods, Oillon Airport — 20 years — has averaged 9.07 inches, and Grinnell Glacier — 15 years — about 105 inches).

#### STORM TYPES

All parts of the earth are subjected occasionally to storms of various types, and between parts of continents, nations, or even smaller subdivisions, differences can be large. And within Montana (third largest of the contiguous 48 states) there is room for important differences. The several storm types of most importance to Montana are covered separately below:

##### 1. Hail and Severe Thunderstorms.

From the economic viewpoint, perhaps the most troublesome storm types arise from thunderstorms, which, when they become well-developed, can produce hail, damaging lightning, gusty winds, and about once or twice a year, on the average, a small tornado may occur. In a 46-year period (1916-1961) there were less than two per year, causing less than \$20,000 damage each and about one death for 10 tornadoes. Most of these tornadoes have occurred in the eastern third of the state, and while they have been seen in the western half, they are rare in that area, and have caused little damage. In fact, tornadoes occur so seldom in ANY Montana area that they are not a major hazard in the sense that they are in much of the Central Mississippi Valley.

Hail is another matter. Few summers pass without hailstorm damage to crops over some parts of Central and Eastern Montana, the hail always coming from well-developed thunderstorms. The hail experience at Billings approximates that of much of Eastern Montana. In a recent study of Billings hail 1930-62, it was found that 3/16" diameter hail falls an average 2.6 days a year, 3/8"-1/2", once in three years, and 1-1/4" or larger, once in 8 years. Two-inch hail has been observed there twice, and 3-1/2" stones were measured July 6, 1955. Total crop damage varies considerably from year to year, depending upon the amount of thunderstorm activity, but total damage in many years runs less than one percent of the grain crop, and a bad year may cost as much as two or three percent. By the very nature of the way it is formed, hail is "spotty," rarely covering large areas. But when it strikes a city or other population centers, damage can be considerable — as at Billings in 1955 (July 6) when the damage total reached more than \$5 million.

A third aspect of thunderstorms that causes occasional difficulty is lightning, and lightning strikes, as elsewhere, are to be avoided where possible. Scarcely a year passes without one or two deaths or injuries from lightning, but this incidence is very low for such a large area. More common (but still infrequent) are brief power or telephone outages from lightning strikes. Also requiring mention is the sometimes very gusty and strong "squall" wind which accompanies most thunderstorms at some time during its life span — but these winds seldom cause more than minor difficulty.

##### 2. High Winds.

Aside from the thunderstorm squalls mentioned above, high winds sometimes occur, especially in certain favorable locations along east slopes of the Continental Divide. Great Falls (see Table 4) owes much of its 17.3 mph average January wind speed to the "chinook" type wind, which occasionally attains speeds greater than 70 mph from the Browning - Cut Bank area southeastward to the Yellowstone and Stillwater Valleys above Columbus. These high speeds seldom cause serious trouble in these areas, however, mainly because they are accepted as a manageable component of the local climate complex, by the expedient of designing and planning for them. And these winds, even in areas where they are not so strong, assure most of the State a supply of clean air in a well-ventilated environment.

##### 3. Heavy Rain

In Table 2 it was noted that June was normally the wettest month in the more heavily populated areas. The only exceptions to this are at the higher elevations, and in a few northwestern counties where winter precipitation is heavier — although falling mostly as snow. While heavy rains may occur in any month mid-May to September in the large part of the State east of the Continental Divide, they become general and heavy enough to cause flooding primarily in June, when their effect is of course multiplied by spring mountain snow melt runoff. Heavy flash flooding storms occur occasionally, but when they do the area affected usually is quite small. Among heavy storms on record are: 1. Springbrook (near Circle) June 17-21, 1921, 15.08 inches; 2. Warrick, June 6-8, 1906, 13.28 inches; 3. Evans, June 3-6, 1908, 8.0 inches; and 4. at several points along the Continental Divide, June 7-8, 1964, 10 to 14 inches in 36 hours. All these storms were associated with flooding, but it must be noted that really serious flooding occurs about once in 10 years, and even then covers only a small part of the State's area.

##### 4. Cold Waves and/or Blizzards.

The last of the four storm types of importance, cold waves and blowing snow do not present the dangers they did a half-century or more ago, but their reputation is difficult to change, and they can still be dangerous to the uninitiated or unprepared. Modern machines, communications, heating plants, etc., all have contributed to a lessening of their seriousness — provided reasonable preparation for them has been made. This storm type is most threatening when it occurs following one of Montana's relatively frequent winter spells of mild weather. Temperature falls from above freezing to below zero, accompanied by snow and blowing snow borne on strong north to east winds, are the main features of this condition, and the earliest few hours are the most troublesome. But large parts of Montana seldom see such storms — in the southwest corner above Three Forks, for example, they occur less than once a year on the average, and when they do, the worst is over in a matter of less than a day. West of the Continental Divide is invaded once or twice a year by such events, in Northeastern Counties frequency may reach 6 or more in some years, but actual averages have not been computed. It is after skies have cleared and winds have subsided during such cold periods that the lowest temperatures occur — and here it must be emphasized that these periods of a few days of quite cold weather are not typical. They are rather the exception, as they must be, in order to account for the fact that January (midwinter) temperatures average well above zero at all stations in the State.

#### SUMMARY

With largely "built-in" air conditioning in late spring to early fall, Montana possesses an almost ideal climate, as a whole, during the year's warmer half. Western mountain areas have warm afternoons and cool nights (see West Yellowstone, Table 1), and oppressive heat is unknown. Even in the warmer sections during July (average maximums as high as around 90 degrees), nighttime cooling provides welcome relief. The winter climate is not as cold as it is widely (and often erroneously) reputed to be. Precipitation is adequate to sustain a well-developed dry-land agriculture and large forested areas along the mountains of west and south central portions. As in all dryland farming areas, dry conditions develop at times, but crop limiting dryness (to a serious degree, at least) occur only one or two years in 10 in the driest areas, and rarely in more favorable sections. Water supplies are almost always adequate for irrigation and power, and particularly near the mountains, water quality is seldom a serious problem. The climate permits a diversified agriculture, a wide range of outdoor work and recreation activities, and does much to enhance the attractiveness of the "Land of Shining Mountains," or the "Big Sky Country."

# EDUCATION IN MONTANA

— By —

Vernon Sletten

Director

Education Research and Services

School of Education

University of Montana



CAMPUS — UNIVERSITY OF MONTANA, MISSOULA

Lower Left — The scenic beauty of Bridger Range lends itself to the informal study groups which are seen working in the center court. Interior corridors border the court in this new Bozeman High School.

CAMPUS — MONTANA STATE UNIVERSITY, BOZEMAN

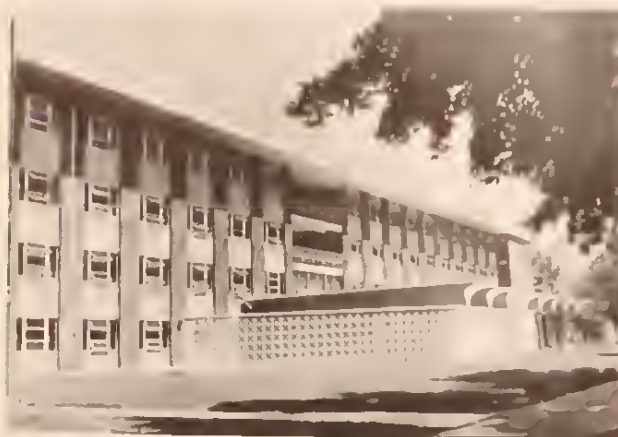






ABOVE: TRADITIONS BELL, HUMANITIES HALL, E. M. C., BILLINGS

BELOW: KNOWLES HALL, UNIVERSITY OF MONTANA, MISSOULA



BELOW: NEW HIGH RISE RESIDENCE HOUSING, MONTANA STATE UNIVERSITY, BOZEMAN



## EDUCATION IN MONTANA

As in the nation, over one-fourth of Montana's population is enrolled in the schools and colleges of the state. The close relationship of the economic and cultural welfare of a society and the necessity of that society's ability to provide expanding educational opportunities has long been recognized in Montana. The efficient allocation of resources to public and private school systems that education continue as a major force for human betterment is a vital concern to Montanans.

Constitutional and legislative provisions place direction of public education in Montana under a single board. This single board functions as a State Board of Education and a Board of Regents respectively in handling questions related to the levels of elementary and secondary schools and higher education. This coordinated activity tends to minimize duplication of effort.

One effect, often unnoticed, of the state's efforts to coordinate and conserve educational resources has been the safe-guarding of the permanent school lands and investments of Montana. Wise legislation and direction have resulted in the fifth-largest permanent income for schools among the states. The state constitution provides not only that all principal must be held in perpetuity but that five percent of all income from public school funds and investments shall be added to the public school funds of the state and "become and forever remain an inseparable and inviolable part thereof."

## ELEMENTARY AND SECONDARY EDUCATION

Modern educational facilities are uniformly distributed throughout the geographical area of the state. A long-standing state, county and local support program for operating expenditures has permitted the up-grading of all public schools. Though school programs vary in quality, the extreme variations of many states have been avoided through this coordination of support. For many years Montana has ranked among the first three or four states in property market value per capita. This fortunate position has enabled school districts to provide modern school facilities for the post-war birth wave and for replacement of obsolete structures. "Double shifting" and over-crowding have been minimized.

Private high schools are located in twelve of Montana's larger cities. A larger number of private elementary schools permits a family choice of private or public education. School legislation and policy on state and local levels have fostered a mutual strengthening of private and public educational efforts.

In secondary education the commitment to the comprehensive high school has resulted in modern facilities, functional in design, and the housing of all educational activities in single centers. Many of these larger high schools have programs that extend into the evening to expedite "manpower needs" and to provide community cultural opportunities. Many of these programs are uniquely adapted to the local needs of industry and business in such areas as forest products, mining, agriculture, manufacturing, and office practices.

BELOW: ADMINISTRATION BUILDING, CARROLL COLLEGE, HELENA



To provide coordination and consultant aid in this period of rapidly changing curriculum objectives, the Montana State Department of Public Instruction has been greatly expanded in recent years. New divisions have been created and old ones rearranged to expedite the provisions of the National Defense Education Act in such areas as guidance services, mathematics and science, and modern foreign language. Full organization exists to maximize the benefits to derive from the Area Redevelopment Act and the Manpower Development and Training Act and recent federal legislation relating to expansion of vocational-technical training.

## HIGHER EDUCATION

Montana has six State institutions of higher learning, three private colleges, and two community public junior colleges. Locations of these institutions are strategic in terms of population centers and geographical distribution.

The University of Montana System for higher education for half a century has been an integrated system for purpose of integration and differentiation of function. The most recent restudy of function occurred in 1960-62 when coordinated efforts of several study groups brought forth the "Master Plan" for public higher education in Montana. The "Master Plan" reiterates the basic principle of maintaining differentiation of functions among the six units of the University system. The Board of Regents, responsible for the operation of all University system units, has utilized "Master Plan" data in establishing curriculum guidelines and proposed building programs for the 10-year period, 1964-74. There is full recognition that unanticipated events will cause some modification in implementation of planning.

The following descriptions of institutional functions show Montana's commitment to two multiple purpose institutions and restriction to relatively few specialized areas in four of the University system units. However, a basic core of general studies for a liberal education is characteristic of all.

## UNIVERSITY OF MONTANA

The University of Montana, one of the state's multiple purpose units, is located at Missoula, Montana, a center of lumbering manufacturing in western Montana. Work is offered leading to the bachelor's and master's degrees and the doctor of education and philosophy degrees. The University of Montana consists of these divisions:

- The College of Arts and Sciences
- The College of Fine Arts
- The School of Business Administration
- The School of Education
- The School of Forestry
- The School of Journalism
- The School of Law
- The School of Pharmacy
- The Graduate School
- The Summer College
- The Affiliated School of Religion

BELOW: READING AND STUDYING IN PLEASANT SURROUNDINGS AT MONTANA COLLEGE OF MINERAL SCIENCE & TECHNOLOGY, BUTTE





The University Biological Station is located at Yellow Bay on the east shore of Flathead Lake 90 miles north of Missoula. The Montana Cooperative Wildlife Research Unit is controlled, staffed and supported cooperatively by the Montana Fish and Game Commission, the Fish and Wildlife Service of the U S Department of Interior, the Wildlife Management Institute of Washington D C., and the University. The Montana Forestry and Conservation Experiment Station is operated by the School of Forestry.

Among the facilities for education that the University possesses are the largest library in the state an experimental forest of 22,000 acres and a notable biological experiment station. A computer center and the linear acceleration laboratory are elements related to the new age of training and education.

Situated on the western slope of the Rockies, the University is adjacent to thousands of acres of mountains and forests, alpine lakes and recreation areas.

#### MONTANA STATE UNIVERSITY

Montana State University, Montana's other multiple purpose unit, has its main campus in Bozeman, Montana, located in south-central Montana. The Bridger mountains form a scenic backdrop. Work is offered leading to the bachelor's and master's degrees and the doctor of education and philosophy degrees. Major divisions of work include:

- The Division of Agriculture
- The Division of Education
- The Division of Engineering
- The Division of Letters and Science
- The Division of Professional Schools
- School of Architecture
- School of Art
- School of Home Economics
- School of Nursing
- The Graduate Division
- The Agricultural Experiment Station
- The Engineering Experiment Station
- The Agricultural Extension Service

Montana State University at Bozeman is the State's land-grant institution

The program at Montana State University and the other land-grant schools has been described as a "trilogy of American ingenuity." The traditional offering of undergraduate and graduate courses, the inclusion of basic and applied research within the concept of a university and wide dissemination of knowledge make up this trilogy. This threefold approach — Instruction, Research, Extension — is fundamental.

#### MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY

Montana College of Mineral Science and Technology (Montana School of Mines) is the mineral engineering college of the Montana University System. It is one of the truly outstanding colleges of its kind in the nation — perhaps in the world. It had been called by some, "The Freiberg of America." Located at Butte, Montana, in the very heart of a thriving mining and industrial complex, it is an institution where theory and practice meet. Mines, mills, concentrators, reduction works, metallurgical operations, and other

industrial facilities constitute a diversified and thriving industrial laboratory at the very front door of the college in which students may work while attending school and in which they can carry out studies and observe operations which contribute to their professional preparation and understanding.

The primary mission and objective of Montana College of Mineral Science and Technology (Montana School of Mines) is to provide education of the highest possible quality to young people preparing themselves for professional service in the engineering fields of mining, metallurgy, mineral dressing, geology, petroleum, geophysics, and engineering science. Although a large proportion of the graduates find their life work in the mineral industries, curricula are designed to give a broad training in all forms of engineering

In addition to its primary mission of training engineers for the mineral industries, Montana College of Mineral Science and Technology (Montana School of Mines) has been research oriented since 1919 when the Montana Bureau of Mines and Geology was established as a department of the college. This Bureau is charged with activities contributing to the development and conservation of Montana's natural mineral resources including all metallic and non-metallic minerals as well as petroleum, natural gas, coal and ground-water. With the activation of the graduate school in 1929, academic graduate programs leading to the master's degree in the various fields of mineral engineering, as well as academic research, have contributed in large measure to the development and progress of the institution.

#### THE STATE COLLEGES

Regionally located, Eastern Montana College at Billings, Northern Montana College at Havre and Western Montana College at Dillon serve several purposes. Primary among these purposes is a major responsibility for teacher education. The work of each unit is also directed to community college purposes of providing a broad base of two-year general and pre-professional course work. Northern Montana College has the unique function of designation as the state center for terminal programs in vocational-technical education on the higher education level.

##### (EASTERN MONTANA COLLEGE)

- The Division of Education
- The Division of Humanities
- The Division of Language and Literature
- The Division of Science
- The Division of Social Science
- Two-year Pre-professional Programs
- The Summer College

##### (NORTHERN MONTANA COLLEGE)

- The Division of Education
- The Division of Basic Studies
- The Division of Vocational-Technical Studies
- Two-year Pre-professional Programs
- The Summer College

##### (WESTERN MONTANA COLLEGE)

- The Four-year Course in Teacher Education
- The Teacher Service Division
- The Graduate Division
- The Two-year Course in Business Education
- The Two-year General College Course and Pre-professional Courses
- The Summer College



ABOVE: WESTERN MONTANA COLLEGE AT DILLON

BELOW: NORTHERN MONTANA COLLEGE AIR VIEW AT HAVRE



BELOW: AIR VIEW OF EASTERN MONTANA COLLEGE CAMPUS LOCATED AT BILLINGS, MONTANA

BELOW: MID-WINTER SCENE ON THE EASTERN MONTANA COLLEGE CAMPUS AT BILLINGS



BELOW: DAWSON COUNTY HIGH SCHOOL CHEMISTRY LAB IS PLEASANT AND WELL LIGHTED





ABOVE: GREAT FALLS PLUMBING CLASS—EMPLOYERS, CRAFT UNIONS AND THE PUBLIC SCHOOLS COOPERATE IN APPRENTICE TRAINING CLASSES TO UPGRADE SKILLS OF LOCAL CRAFTSMEN. EVENING COURSES IN MANY SUBJECTS SUCH AS PLUMBING, SHEET METAL WORK, DRAFTING AND OTHERS ARE OFFERED UNDER THE GUIDANCE OF THE SCHOOL'S ADULT EDUCATION DEPARTMENT. IN ADDITION TO EVENING CLASSES, FULL TIME COURSES ARE OFFERED IN PRACTICAL NURSING, CARPENTRY AND HOTEL AND RESTAURANT COOKING AND BAKING.

## IN-SCHOOL TRAINING

IN THE HIGH SCHOOLS

and

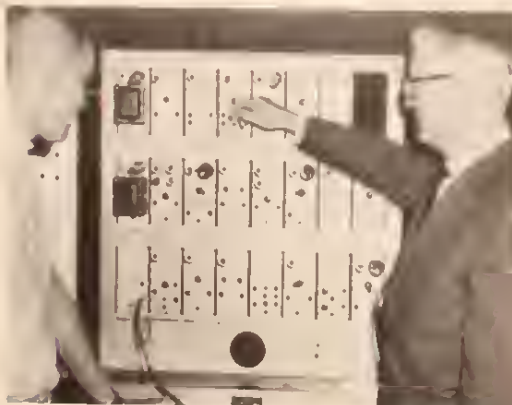
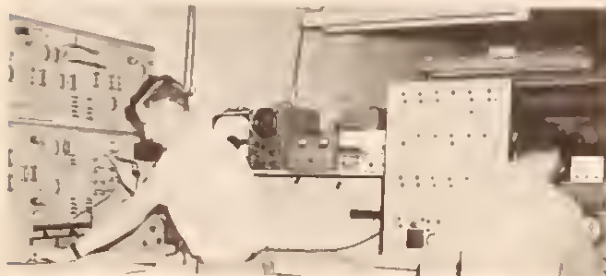
Advanced Technical and Research Programs in  
Montana's Colleges and Universities are Planned  
to Meet the Challenges of Tomorrow in This  
Rapidly Changing World



LEFT: STUDENTS AT MONTANA MINERAL SCIENCE AND TECHNOLOGY MUST UNDERSTAND PROPERTIES OF MATERIALS IN PURSUIT OF THEIR ENGINEERING EDUCATION



ABOVE: THEORY AND PRACTICE OF X-RAY DIFFRACTION IS AN IMPORTANT ASPECT OF ENGINEERING EDUCATION AT MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY AT BUTTE



ABOVE, LEFT: HELENA AERONAUTICS SCHOOL. FOR OVER TWENTY YEARS A PIONEER IN AVIATION MECHANICS FOR HIGH SCHOOL YOUTH AT HELENA HIGH SCHOOL

ABOVE, RIGHT: CLASS IN AUTO MECHANICS AT FLATHEAD HIGH SCHOOL IN KALISPELL

LEFT: GREAT FALLS IN-SCHOOL TRAINING AT ONE OF THE TWO GREAT FALLS HIGH SCHOOLS



ABOVE: ANOTHER SCENE ON ACTUAL TRAINING AT A HELENA AERONAUTICS SCHOOL CLASS

LEFT: FLATHEAD HIGH SCHOOL WOOD SHOP ACTIVITY

RIGHT: PICTURE TAKEN AT MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY AT BUTTE





## JUNIOR COLLEGES

The 1939 enabling legislation permitted the establishment in Montana of county junior colleges. Custer County Junior College at Miles City and Dawson County Junior College at Glendive offer terminal courses and two-year college transfer programs.

## OTHER TERMINAL COMMERCIAL EDUCATION PROGRAMS

Private business schools offer commercial training in the cities of Billings, Butte, Great Falls, Kalispell and Missoula.

## THE PRIVATE COLLEGES

Three vigorous, growing private four-year colleges offer programs in the arts and sciences for those students seeking a liberal education in the atmosphere of the private college.

## CARROLL COLLEGE

Located at Helena, Montana, this institution is a fully accredited four-year liberal arts co-educational college. Founded in 1909, Carroll is conducted by the Roman Catholic Diocese of Helena. The college is staffed by priests and lay men and women. The bachelor of arts degree is offered in the various programs of the arts and sciences.

## THE COLLEGE OF GREAT FALLS

The College of Great Falls is a private, Catholic liberal arts college conducted by the Sisters of Charity of Providence, open to men and women of all faiths.

In 1960 the college moved to a new 104-acre campus on the south edge of Great Falls. This campus, with eleven new buildings, provides an atmosphere in which academic excellence and personal development are encouraged. The college's blue print for growth includes, in the immediate future, completion of the recreation center and additional library and communication center facilities.

Some 1200 students have received degrees from the College of Great Falls. Half of these graduates now live and work in the Great Falls area.

## ROCKY MOUNTAIN COLLEGE

Rocky Mountain College was founded in 1947, the result of the merger of Intermountain Union College and Billings Polytechnic Institute. Its purpose is to give instruction in the arts, sciences, Christian religion, and in such other branches of learning as are commonly taught in institutions of higher learning. The institution's location in Billings, Montana, provides a central location for Montana students.

Rocky Mountain College as a college of liberal arts is interested in a comprehensive educational plan — one which emphasizes the many needs of life: intellectual, cultural, spiritual, social and vocational.



ABOVE: A CLASS IN ELECTRONICS AT FLATHEAD HIGH SCHOOL IN KALISPELL



BELOW: PHYSICAL EDUCATION AT BUTTE, MONTANA. SWIMMING CLASS IN MODERN, SAFE POOL



ABOVE, RIGHT: STUDENTS FROM MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY CONDUCTING UNDERGROUND SURVEYING IN THE NATURAL LABORATORY OF AN OPERATING MINE LOUNGE AT WOMEN'S RESIDENCE CARROLL COLLEGE, HELENA



BELOW: THE LIBRARY AT MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA



CONSTANTLY BUILDING FOR THE FUTURE IN THE "BIG SKY COUNTRY"



LEFT  
STUDENT  
CENTER AT  
COLLEGE OF  
GREAT FALLS

LEFT: NEW  
SEELY LAKE  
HIGH  
SCHOOL  
ENDS THE  
NATION'S  
LONGEST  
SCHOOL BUS  
RIDE TO  
MISSOULA

LEFT:  
MORGAN  
HALL, MEN'S  
DORMITORY  
WITH  
MARRIED  
STUDENTS'  
QUARTERS  
AT RIGHT AT  
NORTHERN  
MONTANA  
COLLEGE

LEFT: MAIN  
GYM AND  
ACTIVITIES  
AREA AT  
NORTHERN  
MONTANA  
COLLEGE



ABOVE: SPACE AND ATTRACTIVE SURROUNDINGS HELP MAINTAIN STUDENT ENTHUSIASM AND AN OPPORTUNITY FOR PERSONAL CONFERENCES



ABOVE: RECESS TIME AT A BUTTE ELEMENTARY SCHOOL

BELOW: ELEMENTARY CLASSROOM



BELOW BILLINGS ELEMENTARY CLASSROOMS OF MODERN DESIGN

RIGHT: HIGH  
SCHOOL IN  
BUTTE, MON-  
TANA, "THE  
MINING  
CITY"



RIGHT:  
FOYER IN  
NEW  
BILLINGS  
SCHOOL  
MAKES A  
PLEASANT  
ENTRANCE



RIGHT: A  
NEW WING  
OF WHITTIER  
ELEMENTARY  
SCHOOL



RIGHT:  
MODERN  
ELEMENTARY  
SCHOOL AT  
POLSON

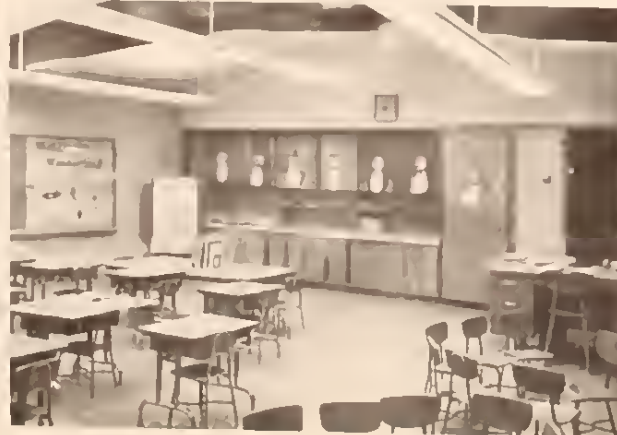


BELOW:  
DAWSON  
COUNTY  
HIGH  
SCHOOL

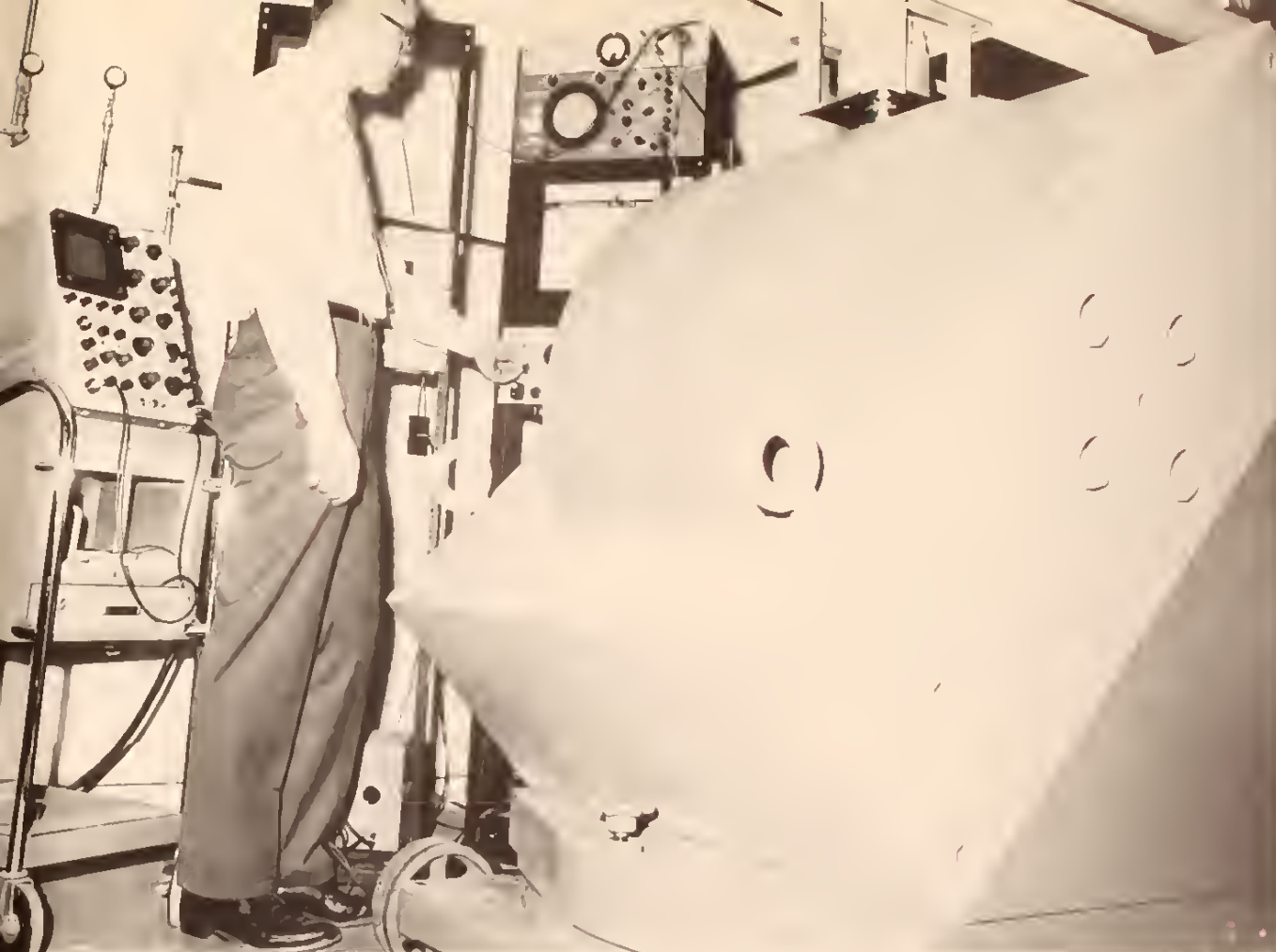


Montana Believes in its Youngsters and Keeps Pace with  
This Rapidly Developing State in Providing the Very  
Best in Educational Facilities

BELOW COWAN HALL AND ADMINISTRATION BUILDING AT  
NORTHERN MONTANA COLLEGE AT HAYRE







Above — Research in Nuclear Magnetic Resonance Using A Large Varian Associates Magnet at Montana State University, Bozeman, Montana

## RESEARCH IN MONTANA

By

C. M. Sorvaag

Research Engineer

Industrial Development Center



## ENGINEERING RESEARCH LABORATORIES

MONTANA STATE COLLEGE

BOZEMAN, MONTANA

Agricultural Engineering  
Chemical Engineering

Civil Engineering  
Electronics Research

Engineering Mechanics  
Industrial Engineering

Mechanical Engineering  
Operations Research

## 1 INTRODUCTION

In the present economy of the United States research and development plays a very important part in building for the future. The past efforts in research and development have clearly shown its impact on the growth of the gross national product, regional development, technological progress, advancements in education and the tremendous acceleration in scientific knowledge and usage. The growth in research in colleges and universities in the United States has increased from \$50,000,000 annually twenty-five years ago to over \$2,000,000,000 per year at the present time, and, it is likely that this growth will continue.

Montana has recognized that research is also important to its own economic growth and is clearly shown by the increase in expenditures in research since after World War II. In 1945 to 1946, the Montana University System spent about \$570,000 in research which was mostly in the area of agricultural research. In the fiscal year 1963 to 1964 approximately \$3,930,000 was expended in research in the three major units of the Montana University System: Montana State University, University of Montana and the Montana College of Mineral Sciences and Technology. The areas of research today as compared with the areas of research twenty years ago show a considerable expansion of research activity in areas other than agriculture. Research is being done in practically all disciplines in the Montana University System.

Two examples of research in Montana leading to development of new industries within Montana is demonstrated by Montronics in Bozeman and the Sunburst Bio-Chemical Works in Conrad. Montronics in Bozeman was a result of the electronics research and development activities in the Electronics Research Laboratory at Montana State University. The Sunburst Bio-Chemical Works was formed as a result of research on barley products in the Chemistry Department at Montana State University.

## 2 RESEARCH AT MONTANA STATE UNIVERSITY

Research at Montana State University is being done in practically all of the disciplinary areas associated with the college and is primarily concentrated in the Division of Engineering, Division of Agriculture and the Division of Letters and Science. This research is being sponsored by the State of Montana, various government agencies such as the National Aeronautics and Space Administration, National Science Foundation, National Institute of Health, Army, Navy, Air Force and private organizations such as The Boeing Company, Stanford Research Institute and others.

Research in the Division of Engineering is handled administratively by the Engineering Research Laboratories with functional research capabilities as represented by the various engineering departments such as electronics, electrical, mechanical, civil, chemical, industrial and agricultural. The research in the electrical engineering department has been carried out in the Electronics Research Laboratory in the fields of communications systems and theory, meteor burst communications, network synthesis, space communications, frequency synthesis and standards, servo systems and related areas. Research in mechanical engineering is being conducted in the design of bomb shelter systems and internal combustion engines. Civil engineering research is being done in areas of forest product development, highway construction methods, ice breakup and drainage techniques for highways and vibration effects from earth-quakes on various kinds of dams. An interesting aspect of forest product development is the transportation of wood chips by hydraulic pumping in pipe lines. Research activities in the Chemical Engineering Department includes the following: working on by-product development in the pulp and paper industry such as delta-3-carene and terpene compounds for possible use in adhesives; research in producing silicon carbide from materials in Montana such as high sulphur petroleum fluid coke (silicon carbide is used in electronics and abrasive fields); basic research in mass and heat transfer in

fluidized beds for application in chemical processing, study of chemical separation by azeotropic distillation techniques. Research in industrial engineering is currently being done in the study of logging methods, operations research and industrial processes in paper pulp plants. The research program in agricultural engineering is supported through the Agriculture Experiment Station and includes the following projects: study of most efficient methods of irrigation considering the use of automation through radio controls, investigation of the transpiration of water by conifer trees and its effect on water yields, study to determine optimum methods of watering and storage of watered hay, development of automated methods of silage handling and to investigate automated methods of handling animal wastes in liquid form in feedlot operation under all conditions.

In the Chemistry Department, research is being conducted in many areas. Effort is being expended on the utilization of barley to make it a better cash crop by developing methods for making high-grade starch, gluten and protein food supplement. Research is also being done in a similar area for mustard to see how it can be used as a food supplement for the hog industry, in Montana. The mustard taste has been successfully eliminated and the protein quality has been examined both chemically and by feeding experiments and found to be highly satisfactory. Research is also being done on plants that are poisonous to cattle such as locoweed and tobacco root. Fundamental work on the properties of monomolecular films is being done in application relating to water conservation such as possible coverages in ponds and reservoirs. A number of other agricultural research projects are being prosecuted such as effect of plant hormones on the metabolism of plant forage, transport of ions in membranes such as the uptake of minerals in plant roots, fundamental studies of protein synthesis and effects of antibiotics and so forth. Crystallography is being used as a research tool in a program to relate crystal structure of organic compounds such as phosphates, titanites and vanadates to their behavior on biological systems.

The Physics Department has a number of interesting fundamental research programs. One of these is a basic physics research program in space sciences being supported by the National Aeronautics and Space Administration. This program in space sciences includes atomic and molecular physics, astrophysics and solid state physics. Another research program is in the area of protonic semi-conductors having application in genetic studies. Photo emission studies are being done in the band structures of solids.

Typical of the research programs in the Botany and Bacteriology Department are the following: methods of determining microbial contamination on surfaces from eating utensils to hospital carpeting, effect of recreation use of water on its quality for human consumption, hydrobiology of the Madison River to determine what a river is like before it is polluted, in other words, to establish a standard of comparison for a river in pollution studies, effects of environment on infection of grains and cereals by rust fungi, role of infection in the establishment of cholesterol plaques in arteries for application to the heart disease problem; microbiology of the rodent digestive system for possible application to the sterilization of the human body in space voyages, fundamental studies of how bacteria kills livestock, metabolism of cyanide by fungi, and related areas.

### 3 RESEARCH AT THE UNIVERSITY OF MONTANA

Research at the University of Montana is primarily centered around four major organizations: the University Biological Station, the Bureau of Business and Economic Research, Forest and Conservation Experiment Station and the Wildlife Research Unit. Research is also being done in individual departments such as physics and geology and others. Support for research at the U of M is provided by the National Institute of Health, National Science Foundation, U. S. Forest Service, Public Health Service, American Chemical Society, U. S. Army, State of Montana, National Park Service, Washington Water Power Company and others.

In forestry research is done in the relation of land use to ecology of wild animals such as deer and elk. In addition, the economic value of wild animals is being studied. Research is under way on the hybridization of the three major varieties of spruce, white, blue and Engelmann in the northern Rocky Mountain region — a method to determine hybridization which appears to be promising is to make chemical analysis of the turpenes. This technique should be a powerful tool in determining tree species in forestry management. Other techniques are being developed for describing forests and understanding species, numerical analysis techniques are also being investigated based on various forms of data input. Research is also being done in the artificial fertilization of natural or man-made forests which should have an impact on increasing the yield of marketable timber from forest lands. Research is being conducted in forest damage by various forms of fungi such as mistletoe.

In zoology, research is being done on sex reversal of certain bird species, reproduction in wild animals such as badgers, skunks and weasels, and research in the geographical distribution of marmots.

In the area of microbiology, research is being accomplished in the following areas: development of new vaccine to control tuberculosis, research into the control of dysentery and food poisoning, studies into why bacteria die, investigation of biology of human disease producing fungi and biology of organisms causing whooping cough. It is planned to tie in microbiology and zoology on methods of detecting water pollution by game animals and the significance of such solutions. Another planned research program is to be a joint effort between microbiology and forestry in the survival of bacteria in alpine soils.

Research in physics includes investigation of nuclear disintegration phenomena through the use of a linear accelerator facility. Analytical work is also being done in the determination of radio activity in rocks to ascertain their age.

The Bureau of Business and Economic Research which is associated with the School of Business Administration conducts research on present and anticipated business conditions in Montana. Since the economic development of Montana is one of the major concerns of Montana at the present time, the research by the Bureau of business conditions and economic factors is of high importance.

The geology department is investigating mineral resources that could foster and increase the growth of established mineral industries or provide new mineral industries in Montana. A preliminary survey has been done of the commercial beryllium potential of certain areas in central and western Montana. Of recent interest is the possibility of sources of aluminum ore in the Bitterroot Mountains of western Montana.

### 4 RESEARCH AT THE MONTANA COLLEGE OF MINERAL SCIENCES AND TECHNOLOGY

Research at the College is conducted within each engineering department and is administered by the Research and Development Foundation which was established by the alumni association to promote sponsored research. Research is being done in geology, metallurgy, mineral dressing, mining, geophysics and engineering sciences. This work is being sponsored by the National Science Foundation, National Aeronautics and Space Administration, U. S. Geological Survey, National Academy of Sciences, Agency for International Development (State Department), Heath Steef Company, Anaconda Company, State of Montana and others.

Research activity in the Metallurgy Department includes the following: research into the formation of point defects in platinum as affected by strain rate, research into special aspects of autoclave leaching of copper sulphide materials, development of a program for obtaining computer solutions to Law photographs for determination of single crystal orientations, development of techniques for the electrolytic production of beryllium powder and related programs.

The research activities of the Department of Mineral Dressing includes materials processing, separation and concentration, beneficiation and separation of discrete particles. Typical of the research being done is the investigation of reaction between asphalt and aggregate to provide more fundamental information for application to asphalt highway construction. Fundamental studies are underway in the area of comminution which is the process of reduction of particle size, one is a grinding study of mineral solids in non-aqueous fluids and the other is a study of the possible use of focused-coherent light or lasers. Research is also being done in the selective separation of copper, lead and zinc from massive sulphide ores through basic consideration dealing with environmental conditions and control of conditions for selective separation.

In the Mining Department, a study is being made which will contribute to a better understanding of joint systems and other sheetlike imperfections in naturally occurring rock as related to stresses imposed upon it by mining operations. Research in the Physics Department is involved with seismology in Montana, Idaho, Wyoming and Yellowstone Park, freezing point potentials, research in instrumentation to measure density of hydraulic backfill in mines using radioactive measurement techniques, and developing probe techniques to measure strain in rockburst studies. In the Engineering Science Department, research is being done on the techniques of rock breaking by electrical methods.

Continuous research on mineral and water resources in Montana is provided at the Montana Bureau of Mines and Geology associated with the Montana College of Mineral Science and Technology. This research includes investigation of geology, production, treatment and economics of the State's mineral resources and this information is continually being disseminated to interested organizations and individuals.

### 5 OTHER RESEARCH IN MONTANA

A number of private organizations in Montana have their own research and development programs which are largely oriented to new product development or services. Typical in this area is the activity in the J. Neils Lumber Company. After thirteen years of research, they have perfected a process to extract industrial gum from larch trees which is the first domestic source of gum that is competitive with gum arabic and has applications in lithography, textile, pharmaceutical, food, paint, ink and other industries.

The Anaconda Company and the Montana Power Company and others are also active in research programs which are oriented to their interests and are pointing to the future needs in Montana. The Anaconda Company has research programs in geology and mining as related to their needs. The Montana Power Company is active in research programs and is associated as an affiliate with several research institutes, one of the programs Montana Power Company is supporting is a helium gas cooled nuclear power project which is the world's first reactor to produce steam that can be used by conventional turbines.

The Rocky Mountain Laboratory of the United States Public Health Service in Hamilton, Montana has an enviable record of achievement particularly in the area of vaccines for Rocky Mountain spotted fever which is carried by the wood tick, yellow fever, typhus and tuberculosis.

The Holter Research Foundation at Helena is well known for its research into medical instrumentation.



## MANUFACTURING

### By Montana State Planning Board

The manufacturing economy of Montana, from its earliest beginnings, has been based on the processing of the primary products of mine, forest and farm, and on the utilization of water power. Raw material-oriented industries, in which there is a reduction in weight or perishability prior to transportation to markets, and power-oriented industries, in which the cost of power is a large proportion of the total cost of production, are dominant. Thus we find such industries as the smelting and refining of copper and zinc, refining of aluminum and petroleum, production of elemental phosphorus, of phosphate fertilizer, the milling of timber, the production of wood pulp, refining of sugar beets, milling of flour, and manufacture of dairy products.

Although the emphasis is on the raw material and power-oriented industries, a wider degree of diversification is introduced by market-oriented industries depending on local markets, and producing commodities in which there has been increase in weight, perishability or volume. In some cases, raw material are of local origin; in other cases, not. Bottling works, bakeries, metal and wood fabrication industries distributed widely throughout the State, are examples. Then, too, some few commodities are produced for which neither the source of raw material nor the market is local (at least in its entirety) with both raw material and finished product having relatively high value with respect to bulk. Examples of the products of this type of industry are dental instruments, ceramics, gun sights and bearings.

In terms of number of employees, (see chart No. 1), in 1964 the principal industry groups in order of importance were lumber and timber products (8,600), food and kindred products (4,600), primary metals (3,500), printing and publishing (1,700), Petroleum refining (1,200). Other important groups were chemicals and allied products, stone-clay-glass products, and fabricated metal products which employed a total of 3,300.

Growth in capital expenditures has been most encouraging. Disregarding changes in price level, new capital expenditures rose from \$16 million in 1959 to \$28 million in 1963. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operation expense. Also excluded are expenditures for land and expenditures made by owners of plants and equipment leased to reporting manufacturers. These figures do not cover idle plants and plants under construction that were not put into operation within the year.

Manufacturing activity has increased substantially over the past three decades. From 11,900 employees in 1939, the number increased to 21,900 in 1964. Data for "value added" by the manufacturing process also disclose an upward trend. In 1939, "value added" was \$38,828,000, in 1947, the figure was \$90,845,000, and in 1963, \$234,783,000. (No adjustments have been made in these data to compensate for changes in the price level.)

Between 1950 and 1964, employment in all manufacturing in Montana increased 21.6 percent or at a rate slightly higher than total covered employment. With the exception of petroleum refining, all industries within the group increased in number of employees. Only lumbering, however, had a large enough growth to increase in importance relative to total employment. In 1950 it employed 5.4 percent of all covered employees as opposed to 7.5 percent in 1964.

Employment in Montana's manufacturing segment is quite seasonal, largely because of the importance of food products and lumbering industries. Despite the steady employment provided by the smelters and refineries, printing and publishing establishments, and other less important enterprises, total manufacturing employment in a typical year will vary about 2,000 workers from April, the low month, to August, when manufacturing employment is at its peak.

Average wage rates paid to covered workers in manufacturing industries are above the average for all industries, but are lower than those paid to mining and construction workers. Covered manufacturing employees earned \$122,172,022 in 1964. The average weekly wage rate for 1964 amounted to \$109.76 per employee, or \$2.71 per hour. Employees in Montana's manufacturing industry worked an average of 40.5 hours per week in 1964.

The food and kindred products industries make up an important segment of manufacturing in Montana although, with the exception of sugar and flour, most of the products are produced in small plants for local consumption.

Average covered employment in the food products industries numbered 4,200 in 1950 and 4,600 in 1964. This small increase, slightly under 1 percent, is largely due to the decline in sugar production and to the increased mechanization of all food processing plants.

Looking ahead to the next decade, there is little reason to anticipate any sizable increase in either production or employment in the food industries. Except for sugar factories and flour mills, production in most of Montana's food plants, such as creameries and bakeries, will be in direct response to the local demand.

Significant in this overall picture is the fact that while markets for products manufactured in Montana are not yet large in scope they are growing, and they are being recognized. In recent months attention has been drawn to market possibilities in a variety of products formerly considered beyond the realm of economic distribution from Montana. Some of those which have been explored recently and which are actively being considered include paper and wooden boxes, steel products, fertilizers, plastic products, chemicals, pharmaceuticals, outdoor woolen clothing, pre-fabricated buildings and standardized building sections, sport and vacation trailers, boats, pet foods, wooden novelties, toys, furniture, and step-ladders and numerous products processed from the food and fiber of agriculture.

Prospects for increased manufacturing activity in Montana seem brighter than at any time in its history. The completion of Yellowtail and Libby Dams will make large quantities of power available to industry and make possible fuller utilization of the State's resources.

The production of hydroelectric power in Montana has contributed greatly to the expansion of our manufacturing industries. The effects can readily be seen when we look to the Hungry Horse Project completed in 1953.

The establishment of the Anaconda Aluminum plant and the tremendous expansion of the Plum Creek sawmill and plywood plant at Columbia Falls provide examples of the locational pull of Montana's power and other resources.

New basic industries such as these will not only create new jobs, but will result in the establishment of supply and related industries and in the growth of trade and services functions.

Because of these and similar possible developments, and the present emphasis on the desirability of decentralization of industry, it is reasonable to assume that manufacturing activity in the State will increase considerably over the next decade. This does not mean, however, that manufacturing in Montana will approach the same importance which it holds in the United States as a whole. Most of the manufacturing will probably continue to consist of initial processing with the final stages taking place in more populous industrial areas.

From this brief review it is apparent that Montanans are making progress. In essence, manufacturing is the new force in "The Treasure State." Greater diversity and stability of the economy is being achieved through expansion of existing endeavors and the entry into new fields of manufacturing and processing for both national and local markets. And it seems to be a new era — one that is just beginning, with much more potential for the future than has existed in the past. Following sections of this publication will amplify the nature of this potential.

## EMPLOYERS, WAGE EARNERS, WAGES IN MONTANA'S INDUSTRIES BY COUNTIES, FISCAL YEAR 1964

County	ALL COVERED INDUSTRY			MANUFACTURING		
	Aver No. employers	Aver No. workers	Aver No. wages	Aver No. employers	Aver No. workers	Aver No. wages
Beaverhead	200	909	\$ 3,677,244	9	35	\$ 139,195
Big Horn	197	1,471	8,074,399	2	13	37,013
Blaine	143	481	1,653,720	4	27	110,649
Broadwater	55	258	792,515	6	72	266,954
Carbon	162	469	1,445,534	10	72	233,271
Carter	36	89	253,208	2	3	3,266
Cascade	1,641	13,548	67,258,962	61	2,811	16,200,793
Chouteau	122	412	1,586,632	6	24	109,062
Custer	318	2,030	9,009,383	8	94	500,405
Daniels	97	307	965,872	1	2	6,622
Dawson	267	1,567	6,736,838	9	49	183,652
Deer Lodge	236	2,220	12,550,023	8	971	6,728,084
Fallon	123	539	2,220,250	4	22	93,525
Fergus	361	1,632	6,321,185	19	194	931,554
Flathead	898	5,531	26,077,442	127	2,287	13,341,280
Gallatin	683	3,586	14,213,244	49	686	3,428,414
Garfield	38	86	235,854	1	1	469
Glacier	293	1,313	5,192,052	5	22	78,504
Golden Valley	16	28	66,748			
Granite	78	368	1,809,732	15	48	202,345
Hill	355	1,776	6,908,658	11	142	674,728
Jefferson	77	246	702,135	4	5	14,285
Judith Basin	44	125	559,409	1	2	3,695
Lake	267	1,131	4,162,514	22	449	2,144,349
Lewis & Clark	788	4,622	21,397,446	46	832	4,767,300
Liberty	62	179	689,220	1	4	11,677
Lincoln	307	2,645	12,553,246	88	1,738	9,174,497
Madison	119	418	1,544,002	2	3	6,887
McCone	62	203	769,533	2	9	28,390
Meagher	88	461	1,736,698	27	283	1,111,881
Mineral	71	414	2,001,474	11	260	1,470,396
Missoula	1,123	9,257	44,174,538	94	3,372	18,600,259
Musselshell	130	404	1,486,893	7	15	46,970
Park	329	1,475	5,443,750	28	246	1,039,891
Petroleum	18	56	256,526	1	1	2,183
Phillips	134	446	1,430,233	4	22	110,681
Pondera	162	496	1,954,649	5	19	81,493
Powder River	49	137	501,655	2	2	2,916
Powell	123	718	3,191,567	14	160	858,349
Prairie	45	165	504,185	2	4	12,765
Ravalli	260	1,233	4,733,407	35	444	2,071,243
Richland	244	1,079	3,937,951	11	69	274,324
Roosevelt	235	919	3,436,702	7	60	257,972
Rosebud	128	501	1,440,715	6	74	208,992
Sanders	160	894	3,971,225	31	490	2,666,796
Sheridan	159	523	1,801,999	2	23	107,294
Silver Bow	936	9,697	53,835,876	43	831	5,279,449
Stillwater	110	331	1,097,755	8	46	197,354
Sweet Grass	86	264	722,366	4	6	16,801
Teton	152	474	1,802,975	8	31	115,743
Toole	257	813	3,150,856	8	73	473,270
Treasure	15	71	274,965			
Valley	316	1,361	5,714,615	7	63	312,000
Wheatland	68	202	514,176	3	11	23,660
Wibaux	32	157	761,001	1	3	6,950
Yellowstone	2,159	15,735	77,668,513	87	2,767	17,245,335
Statewide (1)	430	16,411	90,288,142	21	1,765	10,166,173
Fiscal 1964 (2)	16,044	112,883	\$537,249,407	1,000	21,757	\$122,172,022

(1) Statewide employers are those whose operations are not ascribed to an individual county.

(2) Does not include employers who did not have employees during fiscal year.  
Source: "Montana Labor Market" issued by Montana State Unemployment Compensation Commission — December 1964 Supplement.

Prepared by Montana State Planning Board, Helena, Montana April 6, 1965

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ANNUAL AVERAGE EMPLOYMENT IN MANUFACTURING, MONTANA, 1950 THROUGH 1964  
(In Thousands)

ITEM	1950	'51	'52	'53	'54	'55	'56	'57	'58	'59	'60	'61	'62	'63	'64
Manufacturing	18.0	18.1	18.0	18.3	18.3	20.4	21.2	20.4	20.2	19.9	20.4	20.4	22.0	22.4	21
Durable Goods	10.5	10.8	10.6	10.6	10.6	12.7	13.5	12.7	12.2	12.1	12.7	12.7	14.3	14.5	13
Lumber and Timber Prod	5.4	6.1	5.9	5.8	6.1	7.1	7.6	6.6	6.6	7.5	7.3	7.4	8.0	8.5	8
Primary Metals	4.0	3.6	3.6	3.6	3.3	4.3	4.6	4.8	4.2	3.1	3.8	3.6	3.5	3.2	3
Other	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.5	1.6	1.7	2.8	2.8	1
Non-Durable Goods	7.5	7.3	7.4	7.7	7.7	7.7	7.7	7.7	8.0	7.8	7.7	7.7	7.7	7.9	8
Food & Kindred Products	4.2	4.2	4.1	4.0	3.9	3.9	3.9	3.9	4.3	4.3	4.3	4.3	4.4	4.4	4
Printing and Publishing	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.6	1.6	1
Petroleum Refining and	1.8	1.6	1.8	1.2	1.2	1.2	1.2	1.2	1.0	9	9	10	10	12	1
Other				1.0	1.0	1.0	1.0	1.0	1.0	9	8	7	7	7	

\* Source: Unemployment Compensation Commission of Montana in cooperation with U S Bureau of Labor Statistics, Montana Labor Market Supplement, 1947-1961, 1961 - 1962, 1962 - 1963 and 1963 - 1964

MONTANA DEVELOPMENT ENTHUSIASTS MEET WITH INTERNATIONALLY KNOWN  
STAN BENHAM TO DISCUSS GREAT POTENTIAL FUTURE FOR WINTER SPORTS  
IN MONTANA

PATRICK A. BYRNE  
ECONOMIC ANALYST  
MONT. STATE PLANNING BOARD  
HELENA

SAMUEL J. CHAPMAN  
DIRECTOR  
MONT. STATE PLANNING BOARD  
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STAN BENHAM  
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PROF. HOWARD L. HUFFMAN  
DEPT. OF INDUST. ENGINEERING  
MONTANA STATE UNIVERSITY  
BOZEMAN





# Power To Grow On

## PRIVATELY-OWNED ELECTRIC PLANTS

Plant	Company	Type	Capacity (KW)
Sidney	Montana-Dakota Utilities	Steam	44,000
Glendive	Montana-Dakota Utilities	Steam	7,000
Miles City	Montana-Dakota Utilities	Steam	2,600
Troy	Montana Light & Power Co.	Hydro	4,500
Troy	Montana Light & Power Co.	Steam	3,000
Black Eagle	The Montana Power Company	Hydro	18,000
Cochrane	The Montana Power Company	Hydro	50,000
Flint Creek	The Montana Power Company	Hydro	1,100
Hauser	The Montana Power Company	Hydro	16,500
Holter	The Montana Power Company	Hydro	49,000
Kerr	The Montana Power Company	Hydro	180,000
Madison	The Montana Power Company	Hydro	8,500
Milltown	The Montana Power Company	Hydro	3,400
Morony	The Montana Power Company	Hydro	47,000
Mystic Lake	The Montana Power Company	Hydro	11,500
Rainbow	The Montana Power Company	Hydro	35,000
Ryan	The Montana Power Company	Hydro	60,000
Thompson Falls	The Montana Power Company	Hydro	40,000
Bird	The Montana Power Company	Steam	66,000
Biafork	Pacific Power & Light Co.	Hydro	4,300

## PUBLICLY-OWNED ELECTRIC PLANTS

Canyon Ferry	U.S. Bureau of Reclamation	Hydro	50,000
Fort Peck	U.S. Army Corps of Engineers	Hydro	165,000
Hungry Horse	U.S. Bureau of Reclamation	Hydro	285,000

## ELECTRIC POWER IN MONTANA

The story of electric power in Montana is one of all the power needed, when it is needed, where it is needed, and at the lowest economical cost.

This was true in the state's earliest industrial history when hydroelectric developments on the Missouri River met the power requirements of the non-ferrous metal mines many miles away. It was also true during World War II when electric power was supplied without delay or rationing in Montana although many other areas in the nation suffered "brown-outs."

And it is true today when an abundant supply of electricity is available anywhere and everywhere needed in Montana.

In the early years, the need for power was filled from generating plants situated on the Missouri and other rivers. Hydro power still dominates the Montana scene and is a major factor in the state's favorable electric rate structure. In 1963, 91 percent of all power produced in the state was generated at plants on the state's major rivers. Steam-electric plants produced only 9 percent of total generation.

The capability of existing hydro plants in Montana is now 1,262,000 kilowatts but new federal projects — Yellowtail Dam, now under construction, and Libby Dam, now in the planning stage, — will add substantially to this total.

The capability of existing steam plants is 126,000 kilowatts but the state's tremendous coal reserves — second largest in the nation — offer great potential for future steam-electric generation. Major steam plants in the state now are those operated by the Montana Power Company at Billings (gas-fired) and by the Montana-Dakota Utilities Company at Sidney. Additionally,

the Montana Power engineers are now working on plans for a new 180,000-kilowatt steam-electric plant to be constructed at Billings. This plant will use coal from the company's 60,000,000-ton coal reserve at Co strip in Rosebud County.

In early days Montana found it necessary to transmit power long distances. Lines from plants on the Missouri River at Great Falls carrying power to load centers such as Butte were pioneer developments in the long distance transmission of electrical energy. Today, the transmission network in Montana encompasses 6,770 circuit miles of line of 22,000 volts and above. In addition, the state has multiple sources of power made possible by interconnections with other companies.

One of the major steps in the interconnection program was the construction in 1941 of a 161,000-volt line from Anaconda, Montana, to Grace, Idaho. This formed the basis for the present Northwest Power Pool whose members consist of eleven power systems operating hydroelectric plants on both the Columbia River and the Missouri River. This interconnection system means increased generation, alternate sources of power, greater reliability, better use of time diversity and lower costs.

The availability of large blocks of hydro power, the existence of economical steam plants and an extensive transmission system are the significant factors enabling Montana to furnish electric service at attractive rates.

In some areas of the state published industrial power rates are among the lowest 7 percent in the nation. Statewide, the average cost of power to large commercial and industrial users is 30 per cent below the corresponding average for the entire nation. On the basis of power used in 1963, this meant a saving of \$1,600,000 to Montana concerns.

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#### THE MONTANA POWER COMPANY IN MONTANA

The Montana Power Company supplies electric power and energy in 36 of Montana's 56 counties comprising 61 percent of the state's entire area where 75 percent of the state's people live. Major cities served are Missoula, Helena, Butte, Great Falls, Bozeman, Anaconda, Livingston, Billings, Havre, Glasgow and Dillon.

The company operates thirteen hydroelectric plants, one steam-electric plant and with purchase contracts has a capability of 706,000 kilowatts. It operates 13,516 miles of electric transmission and distribution lines.

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#### MONTANA-DAKOTA UTILITIES IN MONTANA

The Montana-Dakota Utilities Company serves 18 eastern Montana counties. Major cities in the area are Miles City, Glendive, Sidney and Wolf Point. The company has an extensive, integrated electric system which, in addition to Montana, operates in portions of North Dakota, South Dakota and Wyoming. The company's principal generating station in Montana is the 44,000 kilowatt Lewis & Clark steam-electric plant at Sidney fired with lignite coal from nearby beds. The company also has plants at Glendive, Miles City and Baker in Montana and can call on the company's other generating plants including the new 66,000 kilowatt Heskett plant at Mandan, North Dakota.

The region served by M-DU includes the Montana portion of the prolific Williston Basin oil-producing area. In addition to oil development, M-DU serves extensive cattle-feeding and cattle marketing centers, an important sugar beet industry and a diversified farming industry based on both irrigated and non-irrigated lands.

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#### PACIFIC POWER & LIGHT COMPANY

The Pacific Power & Light Company serves the important timber and mineral producing counties of Flathead and Lincoln in northwestern Montana. The company's network of transmission lines serves more than 15,000 customers in a region whose major cities are Kalispell, Whitefish, Columbia Falls and Libby.

Hydroelectric power is produced at the Company's Bigfork plant on the Flathead River and additional firm power is secured under contract with the Bonneville Power Administration which operates the nearby Hungry Horse plant constructed by the Bureau of Reclamation.

The area served by Pacific Power & Light Company is at the gateway of Glacier National Park but in addition to fine scenery and year-around recreation extensive stands of commercial timber make the area the center of the forest products industry in northwestern Montana.

Aluminum refining and a productive farm and livestock industry adds to the area's economy.

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#### FEDERAL PROJECTS IN MONTANA

Construction of projects by the Bureau of Reclamation and the Corps of Army Engineers have added to Montana's supply of hydroelectric power. These projects are at Fort Peck on the Missouri River near the North Dakota border, Canyon Ferry on the Missouri River near Helena and Hungry Horse Dam on the Flathead River near Columbia Falls.

Additionally, the Bureau of Reclamation is now constructing Yellowtail Dam on the Big Horn River near Hardin, Montana, and this will add 250,000 kilowatts to the state's capability when completed.

Libby Dam in Lincoln County on the Kootenai River has been authorized by Congress and will have an initial capacity of 344,000 kilowatts.

Power output from the federal hydroelectric plants is sold to rural electric cooperatives, to some investor-owned electric utilities, and to two major industries in the state — Anaconda Aluminum Company at Columbia Falls and Victor Chemical Company near Butte.

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#### NATURAL GAS IN MONTANA

Low-cost natural gas for residential, commercial and industrial uses is available in abundant supply in all major cities and towns in Montana.

Montana has multiple sources of natural gas supply including production from fields within the state and from fields adjacent to the State's borders. These supplies adequately meet the demands of existing natural gas customers and also provide substantial reserves for any increased use by present or new customers.

A major feature of Montana's natural gas supply picture has been the development of five underground storage fields at strategic locations. The use of these underground storage fields permits year-around utilization of pipeline capacities and facilitates sales to consumers for heating, commercial and industrial uses at all times of the year. The State has more than 5,700 miles of gathering, transmission and distribution pipelines which serve almost every area.

The major natural gas suppliers in the State are The Montana Power Company and the Montana-Dakota Utilities Company.

The Montana Power Company provides natural gas in the western portion of the State, including such major centers as Livingston, Bozeman, Lewistown, Dillon, Butte, Anaconda, Missoula, Helena, Kalispell, Whitefish and Columbia Falls. The Company also is the pipeline supplier for distribution companies in Great Falls, Shelby and Cut Bank. The Company's supply of gas comes from the Cut Bank and Regan fields in northern Montana, the Big Coulee field in central Montana, fields owned and operated by wholly-owned subsidiaries in Alberta, Canada, and long-term purchase contracts for additional gas imported from Canada. During the year 1964, the Company extended natural gas service to Dillon and other places in the Beaverhead, Jefferson and Ruby valleys in southern Montana.

The Montana-Dakota Utilities Company serves the important eastern Montana cities of Billings, Glendive, Sidney, Miles City, Glasgow and others. Extensive reserves in the Cedar Creek anticline in eastern Montana, the Bowdoin field in northeastern Montana and producing fields in Wyoming and North Dakota are available for M-DU customers in the eastern part of the state.

The cost of natural gas in Montana is particularly favorable. Published rates for commercial use are among the lowest 34 percent in the nation and those for residential and industrial use are substantially below the national average. This favorable cost structure, adequate long-term supplies and a widespread pipeline system have been important factors in Montana's economic development. They are destined to be of continued importance in Montana's predicted expansion in the future.



## MINING IN MONTANA

By Uno M. Sahinen Associate Director  
Montana Bureau of Mines and Geology

Montana will always be a mining state. A positive statement — but true. The products may vary, the methods may vary, but always within the foreseeable future will a good many Montanans be engaged in extracting mineral raw materials from the earth, whether they be the exotic minerals of the rare metals or just common clay for the extraction aluminum.

The mineral wealth of Montana was first touched in 1852 with the discovery of gold on Gold Creek (Pioneer) in present Powell County, but active exploitation did not begin until the discovery of gold at Bannack ten years later. Alder Gulch (Madison County) was discovered in 1863, and the golden era of placer mining was in full swing. This period of Montana mining was short-lived, and by 1870 the richest of the stream had been skimmed from Montana's gold placers.

Miners then turned their attention to gold-and silver-lode mining. Gold and silver could both be recovered as metal from the free-milling gold ores and from the silver ores after a chloridizing roast in the gold and silver mills of the day. Railroads had not yet entered Montana, so base metal ores of copper, lead, and zinc, which required large centralized smelters, could not be worked because of the lack of shipping facilities. This era, which began in 1869, lasted until the slump in silver price in the early 1890's, thus overlapping the era of copper mining by about ten years.

In 1882 the Oregon Short Line Railway reached Silver Bow, near Butte, and on September 8, 1883, the gold spike was driven on the Northern Pacific Railway at Gold Creek marking the completion of the first northern transcontinental railway. With railroad transportation facilities available, copper and lead mining became feasible, and Montana entered into its third mining epoch. Butte, of course, was the center of copper mining, but lead-silver mining was well scattered over western and central Montana. High-grade silver-lead districts such as Nehalem, Barker (Hughesville), Corbin-Wickes, Philipsburg, Hecla, and Argenta, boomed, and metal mining became an established industry throughout western and central Montana.

With the silver-lead ores occurred a troublesome mineral that the miners avoided and the smelters penalized—the mineral was sphalerite, a present-day ore of zinc. Not until organization of the Butte and Superior Mining Company did zinc mining come into prominence. At this company's Black Rock mill in Butte was introduced the first successful large-scale selective flotation system in the United States which made zinc recovery profitable. In Montana zinc ores are not smelted, the ores are roasted to convert the zinc sulfide to soluble zinc sulfate which is leached from the roasted ore in large wooden tanks (pacificas) and the solution electrolyzed to produce high-purity electrolytic zinc. This was another Montana first in the mineral industry.

Manganese, Montana's war baby metal, came into production in 1916, to help win World War I. During war times, when the price of the metal is high and the need for it pressing, manganese mining booms. However, under normal peacetime conditions, Montana's manganese miners find it difficult to compete with cheaper but higher-grade foreign ores. The same can be said of tungsten and chromium. Tungsten mining is sporadic at best, and cheap foreign sources have put Montana producers out of the game. Although Montana has the greatest reserves of chrome ore in the United States, there is currently no production, by virtue of the industry's inability to compete successfully with foreign sources.

Of metals other than those already mentioned, Montana also has produced antimony, bismuth, cadmium, iron, platinum, uranium, and thorium.

### FUTURE OUTLOOK

For the future, the metal outlook is not dim. Montana will continue as a leading copper and zinc producer for many, many years. Silver and gold are now produced essentially as by-products, and will continue as such. The quantities produced, however, are not insignificant. Lead can be produced when market conditions warrant. Montana has reserves of manganese, tungsten, and chromium and can produce when needed. These last three metals, together with Montana iron ores and cheap electric power, could form the basis of a profitable ferro-alloy industry in Montana. Of space-age metals, titanium is plentiful in the titaniferous magnetite ore of north-central Montana. Occurrences of beryllium and columbium are known, but commercial deposits have not been developed as yet.

The nonmetallic mineral products are not as glamorous as the metals and do not except for petroleum, possess the "get rich quick" lure of the metals. They are for the most part low-priced commodities, and their development depends a great deal upon population growth and industrial expansion. As a home example, a pottery industry cannot flourish in an area unless there are enough kitchen mechanics to break dishes. In Montana, the nonmetallic mining began with coal and products for the building industry — building stone, clay for bricks, and limestone for lime used in plaster and mortar.

Coal mining began in the early 1880's and reached a peak in 1944. With the conversion of the railroads from coal to oil and of many industries and domestic consumers from coal to natural gas, coal mining hit the skids and reached an all-time low in 1958 when only one sixteenth of the peak year's yield was produced. However, with the gradual increasing use of coal in steam-electric plants, coal mining will stage a gradual but steady comeback — and Montana now has one eighth of the coal reserves of the United States.

Lime, clay, and stone production began in the 1880's. Yogo sapphire mining started in 1892. Gypsum mining and calcining to plaster began at Hanover in 1898, and the industry is well established and growing today. The gypsum mine at Heath has perhaps the most modern equipment of any mine in Montana today. Sand and gravel production started at the turn of the century but received its greatest impetus in the late 1920's with the start of road building in earnest in Montana.

Petroleum and natural gas production is truly mining, although the methods of recovery are radically different from those of other products. It is the most glamorous of the nonmetals, and striking oil on one's land has come to mean the same as striking it rich in a gold mine. Petroleum mining began in Montana in 1916, and in 1962, for the sixth straight year, it surpassed all other natural mineral products in value of production. Among the new nonmetals to come into the Montana mining picture are Vermiculite (1928), phosphate rock (1929), talc (1942), fluorspar (1948), and barite (1950). These products are more stable in price than the metals and fluctuations in demand between good times and bad are not as great. Furthermore, reserves of nonmetals are usually many times greater than those of metals. Some, in fact, are practically inexhaustible in the foreseeable future, as, for instance, coal, bentonite, clay, phosphate rock, limestone, cement rock, sand and gravel, gypsum and possibly vermiculite. Of the others, oil and gas reserves are the most clearly defined, but substitutes for petroleum products can be manufactured from coal.

Normally the United States as a whole produces nonmetals valued at 8 or 9 times the metal production. This is a normal state brought about by the fact that most of the necessities of life are made of nonmetals — mineral fuels are nonmetals, more brick, concrete and mortar than metal goes into the construction of buildings, dishes and porcelain plumbing. White-ware require more clay and feldspar than they do metals, automobiles made of metals require highways made of sand and gravel, petroleum compounds, and concrete and the cost of super highways is not trivial. So, in a way, the production and consumption of nonmetallic mineral commodities is a measure of the progress of a state. For many years, Montana was reputed to be a metal-mining state and the value of the production of metals greatly exceeded that of nonmetals. However, the turning point was reached in 1957 when the nonmetals exceeded the metals in value and petroleum displaced copper as the leading mineral product. Since then, the value of nonmetals produced has risen, and in 1964 accounted for nearly 58 percent of the value of the state's mineral production.

The future of the nonmetallic mining industry is assured through necessity. As the population of the state increases there will be a greater demand for construction materials such as bricks from clay, lime for mortar and plaster, gypsum for plaster and wallboard, cement for concrete, expandable shales for lightweight aggregate, vermiculite for insulation, and stone for construction and decorative purposes. The demand will increase for bentonite as fillers and filters of various kinds and for a binder in pelletizing taconite (Montana has enormous reserves) and phosphate rock for fertilizers and household chemicals. Montana's oil shale deposits may be utilized as a source of petroleum products, and alumina, the "ore" of aluminum may be derived from common clay. Last, but not least, coal will be mined in ever-increasing amounts for use in generating electric power, and, as the resources of petroleum and natural gas fade, coal may be the source of all the products now derived from petroleum and natural gas. Pipe-line transportation of coal will solve the present high transportation costs. As the State grows, so will grow its nonmetallic mining industry.

### MONTANA MINERAL RESOURCES\*

Condensed from Mont. Bur. Mines & Geol. Bull. II Summary of Montana Mineral Resources, by U. M. Sahinen and F. A. Crowley.

For detailed information on any of the following mineral commodities write to Montana Bureau of Mines and Geology, Montana College of Mineral Science and Technology, Butte, Montana, 59701.

**AGATE** — Moss agate, rated as a semiprecious stone, is found as pebbles along the Yellowstone River from Livingston to Glendive. Much of the agate has been sold by the ton as abrasive. A great deal of the translucent agate which contains eye-catching patterns of "moss" (manganese dioxide) has been cut and polished and set in rings, brooches, and necklaces in numerous small lapidary shops along the river. These comparatively inexpensive gems, ranging in price from \$3.50 to \$100.00, find ready sale among tourists.

**ANTIMONY** — Antimony is a tin-white and brittle metal. Since 1940, Montana has produced 255 short tons of ore valued at \$10,000. Antimony is marketed as the metal, the oxide, crude sulfide, and as alloys. Antimony — hardened lead is used in bearings, batteries, cable coverings, type metal, and ammunition. Antimony and antimony compounds are used in enamels, pigments, chemicals, and in making rubber. Principal ore mineral is stibnite. Crude ores must be fairly high grade before they can be marketed. Known occurrences in Montana are in Sanders and Beaverhead Counties.

**ARSENIC** — Elemental arsenic is a brittle highly poisonous substance, tin-white to steel-gray in color. Metallic arsenic is used to harden copper alloys and lead shot. Arsenious oxide is used in insecticides, weed killers, and wood preservatives, and is recovered at Anaconda as a by-product from the melting of arsenical ores.

**ASBESTOS** — Amphibole asbestos has little value because it is brittle. Chrysotile may be spun into yarn and fashioned into fire-resistant fabric for use in brake linings, clutch facings, gaskets, theatre curtains, safety clothing, and other products which must be heat or fire resistant. The shunter fibers find a ready market in the asbestos-cement industry for use in asbestos shingles, siding, and other insulating materials. Small amounts of asbestos have been marketed intermittently from Montana. The known deposit is Cliff Lake (chrysotile) on Little Mile Creek in Madison County. Kist (amphibole) 35 miles south of Bozeman, Gallatin County. Rainy Creek (amphibole) about 7 miles northeast of Libby, Lincoln County, and the Anderson (chrysotile) deposit, 22 miles southwest of Armstrong, Beaverhead County.

**BARITE** — Barite is used in deep-hole drilling muds, paint pigment, and chemicals, and as a filler in paints, inks, rubber, oilcloth, linoleum, resins, plastics, and asbestos brake lining. It is also utilized in the glass, sugar, and cement industries. Massive vein deposits are the most important sources of barite in Montana. Although barite is known to occur near Missoula, Coalinga, Stevensville, Benice, Saltese, Florence, Troy, York, Alta, Nimrod, and Melrose, only the Elk Creek deposit east of Missoula is producing at present.

**BENTONITE** — Bentonite is a clay composed largely of montmorillonite. In water it disperses and forms a gel with thixotropic properties making it an ideal suspensoid for drill cuttings in deep-hole drilling, if the drilling is interrupted the suspensoid gels keeping cuttings in suspension until drilling is resumed. It is also used as an adulterant or filler in many manufactured products as a filler for oils and fats as a binder in foundry sands and pelletized iron ore. Bentonite is widespread in Montana and is mined at Alzada in Carter County. There are deposits south of Hardin on the Crow Indian Reservation, west of Glasgow in Valley County, and in central and eastern Montana associated with shales of the Colorado and Montana Groups.

**BERYLLIUM** — Beryllium is potentially a vital metal in the development of supersonic aeronautics, outer-space exploration, and atomic energy. It imparts many favorable properties to alloys such as hardness, tensile strength, high electrical and thermal conductivity, and resistance to fatigue, corrosion, and wear. Beryl has been discovered in pegmatite dikes north of Sula in Ravalli County. Minor occurrences have been reported from Madison and Jefferson Counties.

**BISMUTH** — Bismuth is used chiefly in medicines, but is also used in certain low melting alloys and as a safety fuse in electrical apparatuses, boilers, and fire-prevention sprinkling systems. Practically all the metal is produced as a by-product of smelting other ores, and Montana smelters produce it. Its minerals have been noted in Jefferson, Meagher, Lewis & Clark, and Beaverhead Counties.

**CADMIUM** — Cadmium is tin-white, malleable, and ductile and is widely used in electroplating iron, steel, and copper. Aparting to these metals, a greater resistance to atmospheric and galvanic corrosion. It is also widely used in low-melting point alloys, and as a substitute for lead in storage batteries. It occurs as a constituent of zinc ores and is produced at the electrolytic zinc plant at Great Falls, Cascade County.

**CALCITE** (Ice and Spar) — A clear, flawless variety of calcite is used in optical instruments and has been produced in Montana from deposits near Clyde Park, Park County, during World War II for use in bombsights. Other deposits of optical-grade calcite are known to exist in Sweet Grass, Granite, and Lincoln Counties.

**CHROMIUM** — The principal ore of chromium is chromite. The mineral chromite is used as a refractory in the chemical industry, whereas the metal is used as an alloying agent in stainless steel. It imparts the desirable qualities of resistance to corrosion, heat, friction, impact, creep, and wear. It is an essential ingredient for making high-strength steels for structural purposes. Chromium chemicals are used in leather tanning solutions, pigments, and photographic supplies. Extensive deposits of chromite occur in a belt 27 miles long extending from Boulder River in Stillwater County to Fishtail Creek in Sweet Grass County. Other deposits are in Madison and Carbon Counties.

**CLAY** — Common varieties of clay used in making structural shapes, such as brick, tile and pipe, are found in nearly all parts of the state. Fire clay is mined at Armington. Whiteware clay (dickite) of high quality is found in the South Moccasin Mountains near Lewistown and near Zortman in Phillips County. Clay-shales suitable for expanding into lightweight aggregate are abundant in the lower Colorado Group near Great Falls and in the Cloggett Formation near Billings. Expandable clay-shales have also been found near Missoula, Philipsburg, Shelby, Havre, and Loma.

**COAL** — Coal, a familiar substance, is an organic rock formed by the accumulation, decomposition, and consolidation of plant material. The three major kinds are lignite, bituminous, and anthracite. Montana has the third largest reserve of coal in the United States, amounting to some 222 billion tons.

**COLUMBIUM** — Columbium (niobium) is a steel-grey lustrous metal. Because of its mechanical strength at high temperatures, columbium is used principally in alloys for certain parts of jets and rocket engines. It is also used as a "getter" in vacuum tubes, and as structural and shielding material in certain nuclear reactors. Columbium-bearing minerals have been found on Sheep Creek, Ravalli County, and in the Rocky Boy Stock, Bearpaw Mountains, Hill County. Feiguosonite, a complex mineral containing rare earth, columbium, and uranium, has been found in the Sappington pegmatites in Madison County and in pegmatites near Hamilton in Ravalli County.

**CORDUM** — Except for the diamond, corundum is the hardest naturally occurring mineral. Because of its great hardness, it is used principally as an abrasive. Sapphires and rubies are gem varieties of corundum. Deposits of corundum in gneissic rocks are found in Gallatin, Madison, and Beaverhead Counties.

**COPPER** — Copper is the most important nonferrous metal in the United States. Most of the metallic copper is consumed by the electrical industry. It is also used in alloys for building materials, automobiles, ships, and ammunition. Copper has been Montana's most valuable mineral commodity for many years. Ninety-nine percent of Montana's copper is produced from Silver Bow County; its future as a producer of copper is assured for many years to come.

**DIATOMACEOUS EARTH** — Minor occurrences are known in Broadwater and Granite Counties.

**FELDSPAR** — The feldspars are a group of minerals which are essentially aluminum silicates containing either potassium or sodium and calcium. Nearly all of the feldspar produced in the United States is consumed by the ceramic, glass, and enameling industries. Although vast tonnages of feldspar exist in the pegmatite dikes of western Montana, market conditions and freight rates do not appear to justify production from this source at the present time.

**FLUORITE** — The principal source of fluorine is the mineral fluorite. In the steel industry fluorite serves as a flux in open-hearth and electric-furnace operations. The production of hydrofluoric acid requires large tonnages of fluorite. Hydrofluoric acid is necessary for the manufacture of synthetic cryolite used in the aluminum industry. The acid is also used in the production of refrigerants, propellants, fluorocarbon plastics, aviation fuels, laboratory reagents, and for etching and polishing glass. Fluorite occurs as a gangue mineral in many metalliferous mines and locally may occur in considerable quantity and purity. A large deposit of fluorite was opened up in 1952 on Crystal Mountain in Ravalli County. In 1955 the Snowbird deposit was mined at the head of Fish Creek in Mineral County. Deposits have been reported from the Sweetgrass Hills, Lewis and Clark, Jefferson, and Silver Bow Counties.

**GARNET** — Garnets are hard, brittle, glass-like minerals. Because of their sharp fracture and hardness, garnets are used as abrasives and polishers. Deep-red transparent garnets are classed as semiprecious stones. Numerous deposits of garnet-bearing rocks, principally gneiss and schist, are found in southwestern Montana. Garnet is also found in placers and as massive rock associated with epidote and calcite along the margins of granitic intrusions. The total quantity present is enormous.

**GOLD** — Gold is highly esteemed because of its durability, beauty, and rarity. Gold is used by governments and banks as a stabilizer for paper currency. Gold is used in jewelry and in alloys for delicate instruments, and as pure gold laboratory ware. The important gold-producing districts were Virginia City, Bannack, Marysville, Helena, Gold Creek, Cedar Creek, Big Belt Mountains, and the Highland Mountains.

**GRAPHITE** — Graphite is one of the dimorphs (double forms) of carbon; the other is diamond. The mineral graphite is soft and black and has a dull metallic luster. The important industrial uses for graphite include crucibles for melting nonferrous metals, carbon brushes for electrical equipment, foundry facings for smooth-faced molds, and wet and dry lubricants. A graphite deposit occurs about 13 miles southeast of Dillon. Another deposit occurs on Kate Creek southwest of Armstead.

**GYPSUM** — Gypsum is a soft white hydrous calcium sulfate. Some gypsum is marketed in the crude form for use as cement retarders, soil conditioners, and fillers in paints and paper. Outcrops of commercial gypsum are known in Montana in four formations, the Ellis near Lewistown, the Chugwater near Bridge, the Otter near Riceville, and the Kibbey near Kibbey and Lingshire. At present, gypsum is being mined at Hanover and Heath in Feergus County.

**IRON** — Iron is the foundation of our modern civilization. Its widespread occurrence and abundance make it available to most peoples of the world. Being malleable and ductile, it lends itself readily to fabrication. Its numerous and varied alloys make possible the everyday conveniences and necessities and are essential in the tools of industry. It is truly a versatile metal. Magnetite, hematite, goethite, and limonite (iron oxides) are among the most important iron minerals. Ore from Radersburg in Broadwater County is shipped to a cement plant. Exploration programs are under way in Sweet Grass, Beaverhead, Stillwater, Madison and Ravalli Counties.

**KYANITE, SILLIMANITE, AND DUMORTIERITE** — These minerals are grouped together because they have approximately the same composition and are used for the same purposes. They are aluminum silicates and are used for high temperature refractory products such as spark plugs, porcelain insulators, chemical ware, and as refractory furnace lining. The principal deposits of kyanite, andalusite, and sillimanite in Montana are found southwest of Ennis in Madison County. The deposits are irregular and pocketed, so an accurate estimate of tonnage and grade cannot be made. Other deposits have been noted in Gallatin, Beaverhead, Lewis and Clark, Park, and Granite Counties. Dumortierite is found in Beaverhead and Jefferson Counties.

**LEAD** — Lead is used in storage batteries, gasoline additives, cable covering, paint pigments, building construction, ammunition, and alloys. Because of its great density, lead is of prime importance as a radiation shield in atomic plants. The most important lead mineral is galena. Shipments of ore have been made from nearly every metal mining county in Montana.

**LIMESTONE** — Limestone is a bedded sedimentary rock consisting chiefly of calcium carbonate. Lime (calcium oxide) is made from limestone by calcining. Large quantities of limestone are used as the naturally occurring stone for building purposes, and as crushed stone for riprap, road metal, and railroad ballast. Lime has a great number of uses in the chemical and other industries. It is used as metallurgical lime, as a water purifying agent in the manufacture of bleach, calcium carbide, glass, paper, and sugar. The building industry uses lime for plaster and masonry mortar. Agriculture consumes quantities of lime for soil conditioning. Montana has cubic miles of limestone, some of it of remarkable purity. Limestone is quarried near Elliston, Anaconda, Helena, Red Lodge, and Drummond.

**MAGNESIUM** — Magnesium is a silver-white metal. Because of its light weight, it is used extensively in the aircraft and automobile industries, and for making moveable household appliances. It is also used in incendiary bombs, portable tools, protective coverings in boilers, hotwater heaters, and exposed marine equipment. Caustic-calced magnesium finds uses in industries producing special cements, rayon, insulation, fertilizer, rubber, medicines, chemicals, and refractories. Vast volumes of dolomite or magnesite limestone are known to occur in western Montana, and these constitute an ultimate source for the production of magnesium. Springs containing considerable amounts of magnesium salts are reported near Conrad in Pondera County.

**MANGANESE** — Metallic manganese, an essential ingredient in the steel industry, is greyish-white, soft when pure, but hard and brittle when impure. In steel it acts as an alloying and scavenging agent. From the Emma and Travona mines in Butte, more high-grade manganese has been produced than from all the rest of the United States. Practically all the metallurgical-grade ore comes from the Butte district, and battery-grade ore from Philipsburg. Occurrences in outlying areas have been reported from Cataract and Wickes district in Jefferson County, east of White Sulphur Springs in Meagher County, Nehalem district in Cascade County, Norris, Wigwam, Cherry Creek, Renova, and Twin Bridges districts in the Madison County and north of Dillon, Beaverhead County.

**MERCURY** — Mercury, or quicksilver, is an oddity among the metallic elements, being liquid at ordinary temperatures. Mercury is reported as a mineralogical curiosity in the vicinity of Boulder in Jefferson County. A vein containing cinnabar was reported in 1939 in Feergus County.

**MICA** — Sheet mica is vitally important in the electronic and electrical industries. Scrap mica is used in roofing materials, wall paper, plastics, paint, pipeline enamel, and welding rods. Small amounts of mica were marketed from the Sappington deposit in Madison County and from the Dulea and Montana deposits near Virginia City. Mica-bearing pegmatites are reported near Dillon, Beaverhead County, and near Monarch, Cascade County. In 1962 small quantities of hand-cobbed mica were produced from the Thumper Lode, Gallatin County, and near Ennis, Madison County.

**MOLYBDENUM** — Molybdenum is used as an alloying additive in steel and cast iron. The pure metal has electrical and high-temperature applications. Molybdenum compounds are utilized in fertilizers, pigments, ceramics, and catalysts. Occurrences of molybdenite, a molybdenum sulphide, are found in many parts of western Montana, the most important being in the Nehalem district of Cascade County.

**NATURAL GAS** — Montana is fortunate to have abundant natural gas. Most of the major towns of the state have natural gas available for industrial and domestic use.

**NICKEL** — No commercial deposits of nickel are known to exist in Montana. A deposit of nickeliferous dunite is found southeast of Dillon. Annabergite (hydrous nickel arsenate) has been noted in the Wolf Creek Pluton, Beaverhead County. Small occurrences are found on the Mount Chrome property in Stillwater County, and minor amounts are recovered from Butte copper ore.

**OIL SHALE** — Oil shale is a sedimentary rock capable of yielding mineral oil by destructive distillation. Montana has large reserves of oil shale, and it may be utilized in the future. The oil shale occurs at four geologic horizons in Montana, the Blackleaf Sand Member in Teton County, the Phosphoria Formation in the southwestern portion of the state, the Heath Shale, south of Lewistown, and the Lodgepole Formation in the Big Snowy Mountains. Oil shales of probable Tertiary age have been reported from the North Fork of the Flathead River.

**PERLITE** — Perlite is a volcanic glass which contains combined water. On heating, perlite will expand into cellular lightweight material. Most of the expanded perlite is consumed in the building industry where it is replacing sand and vermiculite as an aggregate in plaster. It is also used in concrete, cleansing compounds, paints, plastics, and filters. In plaster it imparts many desirable properties, such as lightweight, acoustic fire-proofing, ease of application, and good bonding properties. Perlite has been reported from near Montana City, northern Jefferson County.

**PETROLEUM** — Although presently not among the great oil producing states, Montana's active oil fields are growing every year, and in 1964 produced over 30 million barrels valued at \$748 million dollars.

**PHOSPHATE ROCK** — Phosphate rock is a sedimentary rock composed of tri-calcium phosphate. Its principal use is in the manufacture of fertilizers and detergents. Phosphate rock is also the source of elemental phosphorus and phosphoric acid. Montana has enormous reserves occurring in the lower part of the Phosphoria Formation of Permian age in southwestern Montana. The rock is being mined in Powell County, in Beaverhead County, in Silver Bow County, and in Granite County. The actual reserve may run into many hundreds of millions of tons. It is known to carry traces of vanadium, tin, boron, and uranium.

**PLATINUM** — The precious metal, platinum, is a heavy greyish-white noncorroding metal. It is malleable, ductile, resistant to most chemicals, and is used for jewelry, dental fillings, and chemical ware. Platinum alloys find numerous application in electrical equipment. Platinum group minerals have been found associated with copper and nickel minerals in Stillwater and Sweet Grass Counties, and near Dixon in Sanders County.

**PUMICITE** — Pumice is a term which refers to light, spongy, highly cellular lava or "rock froth." Pumice is a volcanic "ash." Pumice and pumicite are used in cleaning and polishing compounds, such as rubber erasers, hand soaps, metal and rubber polishers, and sweeping compounds. They are also used as lightweight aggregates in cement and plaster. True pumice is not reported in Montana, but pumicite occurs in many counties, the most extensive deposits known are in Gallatin, Madison, and Rosebud Counties.

**QUARTZ (SILICA) AND GLASS SAND** — Quartz is composed entirely of silica and is one of the most common minerals in the earth's crust. Many tons of quartz as sand and crushed rock are consumed by the construction, glass, and metallurgical industry. Quartz of special quality is used as lenses in optical instruments and as piezoelectric crystals in radio and radar equipment. For these purposes it must be clear and free of flaws. Quartz of pegmatite origin is found in many western Montana Counties.

**RARE EARTHS** — The rare earths are a series of closely related metals. These metals are finding increased industrial application in the glass industry, in carbon-arc-electrode cores, misch metal, and ferrocerium. No commercial production of rare earth has been reported from the state, but several deposits are known. Monazite-bearing gravels occur at Princeton, Granite County, and near Norris, Madison County. The greatest known concentration of rare earths exists in southern Ravalli County. Several new rare earth carbonate minerals, barbarkite and calkinsite, have been noted in southwestern Hill County.

**SALT** — Halite is the mineral name for common rock salt (sodium chloride). It has a multitude of uses. Montana is not a notable producer of salt, although evaporite beds containing great quantities of salt have been found in oil and gas wells in the Williston basin of easternmost Montana.



**SAND AND GRAVEL** — Sand and gravel exceed in quantity and value all other nonmetallic and many metallic mineral products. The largest consumer of sand and gravel is the construction industry, where they serve as aggregates in concrete and in pre-formed concrete products. Minor amounts of sand are consumed as molding sands in the metal industries, as filters in water purification systems, and for sand blasting and polishing. Although sand and gravel are plentiful in Montana, their use is dependent upon local demand and the distance from deposit to market. They are relatively scarce in parts of east Montana.

**SAPPHIRE** — Sapphire is a mineral variety of corundum. The sapphire's color may be blue, pink, yellow, green, or violet, or it may be colorless. The most highly prized stones for jewelry are "cornflower blue" and were produced at the famous Yogo mine, Judith Basin County. Montana has produced natural sapphire from gold-dredging operations near Helena, Lewis and Clark County, and from Rock Creek, Granite County.

**SELENIUM** — Selenium is a crystalline, grayish solid closely related to sulfur. Selenium is the essential element in miniature rectifiers. Other uses include glass decolorizer, vulcanizing agent in rubber industry, paint pigment, chemical catalyst, insecticide, photographic sensitizer, and many others. The major source of this element is from blister copper. Bentonite from Teton County is reported to contain selenium.

**SILVER** — Silver, like most precious metals, is used for money and decorative purposes. The largest consumer of silver is the silverware industry, where silver is alloyed with copper to make "sterling silver." The second and third largest consumers are the photographic and electroplating industries. Silver is also used to plate engine bearings, as a replacement of tin in lead solders, and as alloying agent for hardening copper. Silver is produced in Montana almost entirely as a by-product of copper, lead, and zinc mining, mostly from Silver Bow County. The silver content in the Neihart mines and at the Flathead mine near Kalispell has been sufficiently high to justify these being considered as silver properties. Marysville, Philipsburg, and Wickes-Corbin were great silver producers in the recent past.

**SODIUM SULFATE** — Sodium sulfate, which almost always forms in saline waters, occurs as the minerals thenardite, mirabilite, and glauberite. It is used principally in the manufacture of kraft paper, but is used also in the glass, dye, and coal tar industry, in curing hides, in stock feeds, and in chemicals and medicines. Deposits of sodium sulfate are known to exist in the intermittent lakes of southern Chouteau County and the eastern part of Sheridan County.

**STONE** — The outstanding deposit of dimension stone in Montana at the present time is found near Gardiner where a beautiful variety of travertine is being quarried. This is a decorative stone far superior to Italian travertine in appearance. Montana travertine has been used in a number of buildings from New York to Los Angeles for interior decoration. The library building at the Montana College of Miner Science and Technology is finished with this stone. "Black and gold" marble was produced from a deposit near Radersburg. Two small granite quarries are worked for monumental stone about 20 miles east of Butte.

**SULFUR** — The sulfur is converted to sulfuric acid used in many industries. No deposits of native sulfur are known in Montana, but large amounts of it are locked up in the sulfide ores of copper, zinc, and lead, and in petroleum. Part of the sulfur combined in Butte ores is converted into sulfuric acid at Anaconda for the manufacture of phosphate fertilizer. Some sulfur is recovered in refining petroleum at the Billings oil refineries. Gypsum and anhydrite are potential sources of sulfur.

**TALC** — The properties of extreme softness, smoothness, low moisture content, oil and grease absorption, resistance to chemical attack, and many other desirable properties make talc a versatile mineral. The paint and ceramic businesses absorb about 50 percent of the nation's talc output. Talc is utilized in the production of roofing, textiles, rice polish, crayons, insecticides, paper filler, toilet preparations, and foundry facings. In Montana talc occurs in Precambrian Cherry Creek marbles which outcrop predominantly in the southwestern part of the state.

**THORIUM** — Thorium might be called "the metal of the future" for like its radioactive partner uranium, it can be used in nuclear reactions. Although this heavy gray metal does not have a natural fissionable isotope, it can be converted to uranium 233 in a breeder reactor. The major use for thorium in the oxide form is in gas-light mantles. Metallic thorium is not used extensively because of its low tensile strength and poor resistance to atmospheric corrosion. Monazite, thorite, and thorianite are the major thorium minerals. In western Montana monazite and thorite have been found in numerous placer deposits in Silver Bow, Granite, and Ravalli Counties. The Claggett Formation near Great Falls contains thorium minerals associated with magnetite. Veins carrying thorium occur in the Lemhi Pass district in Beaverhead County. Spotty but high-grade concentrations of thorite occur on Duck Creek in Broadwater County. Similar material has been reported from the Big Belt Mountains. Thorium-bearing pegmatites and veins have been found in the Deer Creek area in Broadwater County. Thorianite has been reported near Norris in Madison County.

**TIN** — The greatest single use of tin is in tinplate (tin-coated steel), which is most familiar as the tin can. Tin is also an important alloying agent in such products as solder (tin and lead), babbitt metal (copper, antimony, and tin), and true bronze (copper and tin). A ton or so of placer or stream tin has been shipped from Basin Creek and bits of stream tin have been found in the gravels of the Bitterroot and Big Hole Rivers. Stannite (copper-iron-tin sulfide) has been recognized in copper ores from near Basin, Jefferson County.

**TITANIUM** — Titanium has been called the "wonder metal" because of its high strength to weight ratio at ordinary temperatures. Metallic titanium is resistant to corrosion, and titanium alloys are noted for their resistance to fatigue and great impact strength. The most important titanium-bearing minerals are ilmenite and rutile. Although both are used for making titanium metal, the greatest share of raw ilmenite goes into the manufacture of titanium oxide for paint pigments and most raw rutile is used for welding-rod coatings. No commercial deposits of typical titanium minerals have been found in Montana. Deposits are found in the Eagle Formation in the Choteau area (Teton County), on the Blackfeet Indian Reservation (Glacier County), and in the Radersburg district (Broadwater County).

**TUNGSTEN** — Tungsten is white and ductile when pure. It has the highest melting point of all metals and has the second highest melting point of all elements, it is exceeded only by carbon. Because of its high melting point and electrical resistance at high temperature, the first important use of tungsten was in electric lamp filaments. The largest quantities of tungsten are consumed by the steel and tungsten carbide industries. The steel industry uses tungsten in magnets and die steel, high-speed steels, tool steels, and for armor piercing shells. Deposits have been discovered in the Browns Lake-Lost Creek and Calvert Hill areas of Beaverhead County, in the Black Pine area of Granite County, the Storm Lake area of Deer Lodge County, and near Pony in Madison County. The Jardine mine near Gardiner has produced tungsten from scheelite which occurs with ore. Scheelite was also recovered from dredge operations on Henderson Creek in Granite County. There are occurrences of tungsten at Potosi in Madison County and in Snowshoe Gulch in Powell County.

**URANIUM** — Uranium, a heavy hard nickel-white metal, is actually a mixture of the isotopes U 238, U 235, and U 234. Uranium 238 can be converted to plutonium, which along with uranium 235 is used for nuclear reactions. Minor amounts of uranium are used in the chemical, ceramic, and electrical industries. Although there are hundreds of uranium-bearing minerals, pitchblende, uraninite, carnotite, tyuyamunite, torbernite, autunite, and uranophane are the most common. Uranium minerals are known to occur in numerous localities throughout Montana. Siliceous dikes and base-metal veins in the northern half of the Boulder batholith contain uranium. Tuffs and breccias on the western shore of Canyon Ferry Reservoir contain autunite and carnotite. Small quantities of autunite have been observed near Saltese. Mineral County tyuyamunite has been noted in the Beartooth Mountains, Park County, and in the Pryor Mountains in Carbon County. The most recent discoveries of radioactivity have been near Deer Creek, Ravalli County, and near Great Falls, Cascade County. Uraniferous lignite beds have been found in Carter and Richland Counties.

**VANADIUM** — Vanadium is a soft steel-white ductile metal. The principal use of the metal is in steel where it promotes grain refining. Vanadium compounds are utilized in the glass, ceramic, paint, and ink industries. The uranium mineral, metatyuyamunite, found in the Pryor Mountains, is said to contain twice as much vanadium as it does uranium. Vanadium is recovered from Idaho and Montana phosphate rock.

**VERMICULITE** — Vermiculite is a micaceous mineral that expands when heated. Vermiculite, when expanded, is used for heat and sound insulation, manufacture of wallboard, and as aggregate in lightweight plasters and concrete. An extensive deposit has been worked for many years northeast of Libby in Lincoln County. Other deposits are known in the Bearpaw Mountains, Hill County, a few miles north of Pony, and east of Hamilton in Ravalli County.

**ZINC** — Zinc is a bluish-white metal, brittle when cold, but malleable at elevated temperatures. The zinc plating or "galvanizing" industry is the largest consumer of zinc. Die-cast zinc alloys consume the next largest amount in products such as automobile radiator grilles, carburetors, fuel pumps, windshield wipers, and many other intricately shaped products. Large quantities of zinc are also used in brass and chemicals. Zinc oxide, one of the most important zinc compounds, finds a multitude of uses in paints, rubber, ceramics, cosmetics, medicines, textiles, and floor coverings. Most of the state's zinc production comes from Butte district where the zinc minerals occur in veins associated with lead, copper, and manganese ores. Production of zinc has been recorded from Philipsburg in Granite County and from the Jack Waite mine in Sanders County. Notable producers are also in Cascade and Sanders Counties.

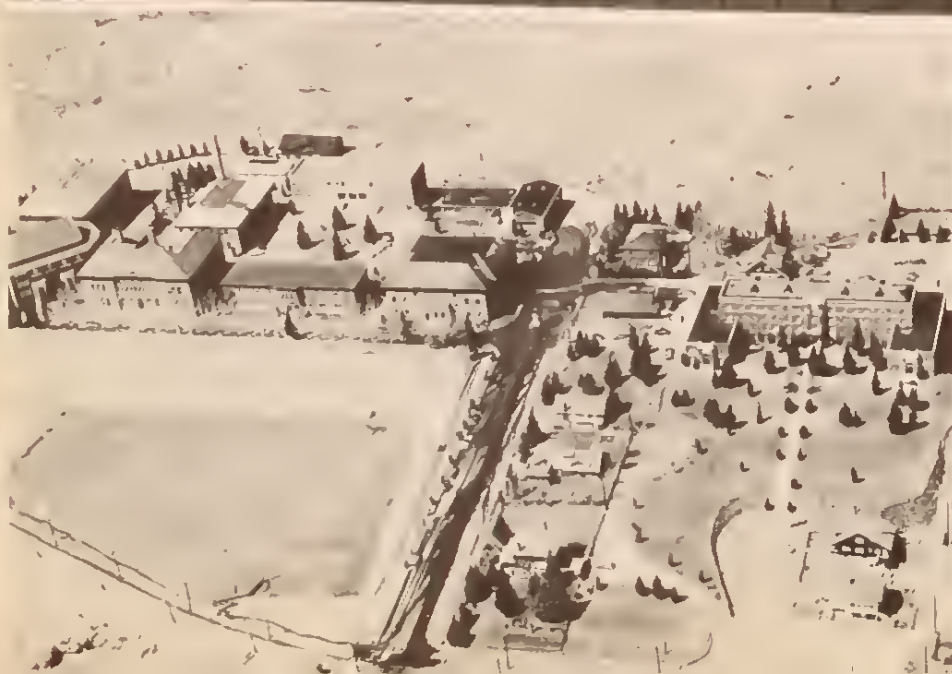
**ZIRCONIUM** — When pure, zirconium is ductile and malleable, but impurities make the metal hard and brittle. Its high melting point, strength at high temperatures, resistance to corrosion, and low neutron absorption factor are important properties. It will allow neutron particles to pass through it somewhat like a light shining through a window. The greatest use of zirconium ores is in refractories, foundry sands, and ceramics. Minor occurrences of zircon have been reported from Beaverhead, Custer, Jefferson, and Powell Counties. Baddeleyite, a zirconium mineral, has been identified in the corundum deposits near Gallatin Gateway in Gallatin County. Several zirconium-bearing minerals, eudialyte, catapleite, elpidite, and zircon, have been noted in nepheline syenite pegmatite dikes in the Rocky Boy Stock, southeastern Hill County.

MINING IN BUTTE, MONTANA — "THE RICHEST HILL ON EARTH"





## DISCOVERY OF GOLD - 1852



ABOVE: PAINTING WHICH WAS ONE OF A SERIES OF HUGE MURALS TELLING THE STORY OF MONTANA ON THE HISTORICAL CENTENNIAL TRAIN WHICH WAS AN INTERESTING PART OF THE NEW YORK WORLD'S FAIR DURING 1964 AND 1965

### MONTANA'S STATE SEAL CARRIES STATE MOTTO

"ORO Y PLATA"  
(Gold and Silver)

LEFT: MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY — LOCATED ON "THE RICHEST HILL ON EARTH," BUTTE, MONTANA

#### MINERAL PRODUCTION IN MONTANA, 1963 and 1964 (a)

Product	1963		1964 (b)	
	Quantity	Value	Quantity	Value
<b>Metals:</b>				
Copper, short ton	79,762	\$49,133,000	104,600	\$67,781,000
Zinc, short ton	32,941	7,576,000	31,017	8,375,000
Silver, troy ounce	4,242,000	5,426,000	5,427,000	7,016,000
Manganese ore, short ton	6,948	(c)	5,017	1,407,000
Lead, short ton	5,000	1,080,000	4,487	1,194,000
Gold, troy ounce	18,520	648,000	28,306	991,000
Iron ore, long ton	13,000	89,000	7,000	50,000
Total metals		\$63,952,000 (d)		\$86,814,000
<b>Mineral fuels:</b>				
Petroleum, bbls	30,875,000	\$75,335,000	30,779,000	\$74,793,000
Natural gas, M cu. ft.	30,026,000	2,253,000	31,000,000	\$2,400,000
Coal, short ton	343,000	967,000	335,000	914,000
Total mineral fuels		\$78,555,000		\$78,107,000
<b>Nonmetals:</b>				
Clay, short ton	38,000	\$ 45,000	38,000	\$ 45,000
Lime, short ton	114,000	1,290,000	120,000	1,293,000
Sand & gravel, short ton	14,319,000	13,756,000	13,500,000	13,000,000
Stone, short ton	6,109,000	7,081,000	5,800,000	6,700,000
Others (e)		17,351,000		19,182,000
Total nonmetals		\$39,523,000		\$40,220,000
Total of all minerals		\$182,030,000		\$205,141,000

(a) From U S Bureau of Mines Area Report B-115.

(b) Preliminary figures.

(c) Included under "Other," below.

(d) Incomplete

(e) Includes barite, cement, fluorspar, gem stones (1963), gypsum, manganese ore (1963), natural gas liquids, peat, phosphate rock, talc, uranium ore (1963), vermiculite, all items that cannot be disclosed without revealing confidential data

#### A Mineral commodities produced in Montana in 1964 in order of value:

- |                          |               |
|--------------------------|---------------|
| 1. Petroleum             | 12. Lime      |
| 2. Copper                | 13. Lead      |
| 3. Sand & gravel         | 14. Coal      |
| 4. Zinc                  | 15. Talc      |
| 5. Cement                | 16. Gold      |
| 6. Silver                | 17. Fluorspar |
| 7. Stone                 | 18. Gypsum    |
| 8. Phosphate rock        | 19. Peat      |
| 9. Natural gas & liquids | 20. Barite    |
| 10. Vermiculite          | 21. Clay      |
| 11. Manganese ores       |               |

#### B. Other mineral commodities that have been produced at one time or another

- |                           |              |
|---------------------------|--------------|
| 1. Agate                  | 12. Mica     |
| 2. Antimony               | 13. Platinum |
| 3. Arsenious oxide        | 14. Sapphire |
| 4. Asbestos               | 15. Silica   |
| 5. Bentonite              | 16. Sulfur   |
| 6. Bismuth                | 17. Thorium  |
| 7. Cadmium                | 18. Tin      |
| 8. Calcite (iceland spar) | 19. Tungsten |
| 9. Chromite               | 20. Uranium  |
| 10. Fluorspar             | 21. Vanadium |
| 11. Graphite              |              |

#### C Mineral commodities known to occur, but not yet produced, yet could be produced if economic conditions warranted:

- |   |                    |
|---|--------------------|
| 1. Beryl                                  | 10. Nickel (?)     |
| 2. Columbium (niobium)                    | 11. Oil shale      |
| 3. Corundum                               | 12. Perlite        |
| 4. Diatomaceous earth                     | 13. Pumicite       |
| 5. Feldspar                               | 14. Rare earths    |
| 6. Garnet                                 | 15. Salt           |
| 7. Kyanite, sillimanite, and dumortierite | 16. Selenium       |
| 8. Magnesium                              | 17. Sodium sulfate |
| 9. Molybdenum                             | 18. Titanium       |
|   | 19. Zirconium      |



# TODAY and TOMORROW ... Oil and Gas Production

By  
James F. Neely

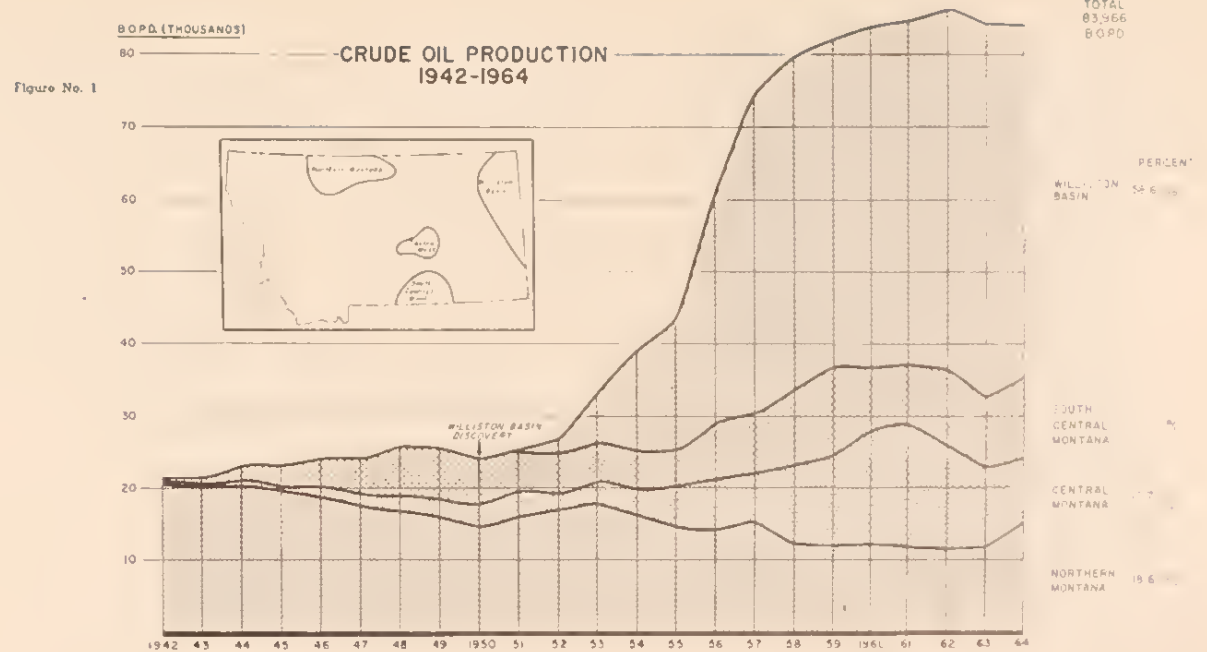
Executive Secretary  
Montana Oil and Gas  
Conservation Commission

The future of Montana's oil industry is directly related to the growth of the nation's economy and population. By the end of the 1960's our nation's population will be in excess of 200 million. To fulfill the energy requirements of this number of Americans, and the industries for which they work, oil industry will necessarily be called upon to keep its oil producing capacities at levels to surpass any prediction made a few years ago.

At the beginning of 1953, the United States daily consumption of oil products was approximately 7,500,000 barrels. During 1963 the domestic demand had risen to 10,560,000 barrels daily and by this example, it appears the daily demand might well be in the area of 15 to 16,000,000 barrels daily by 1970. The increased demand for oil nationally will be here and with wise foresight, Montana can profitably share in this growth. Most of those engaged in the oil industry, in Montana, are optimistic as to their chances of cashing in on the future.

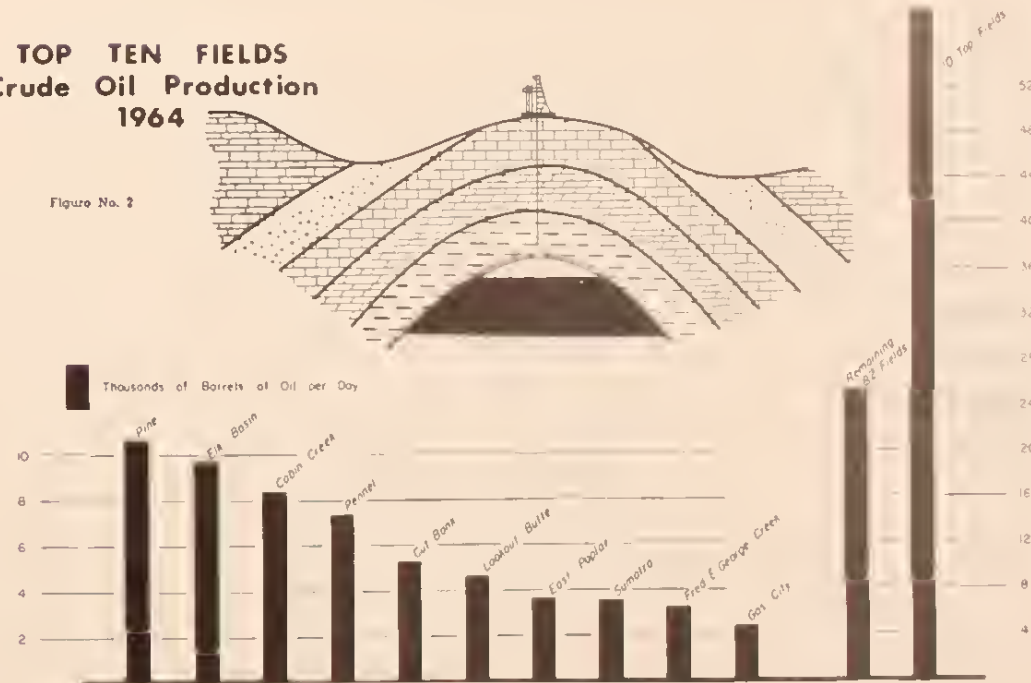
Usually in looking and planning ahead, it is necessary to make a good survey of the past and present. Since the first discovery of oil in this state in commercial quantities, over 488,400,000 barrels of oil have been produced and marketed with a value in excess of \$1,035,483,500. Montana's production in 1954 totalled 14,195,450 barrels, with a valuation of \$31,280,000, as compared to the 1964 total of 30,637,500 barrels valued at approximately \$74,755,500. Montana now stands in twelfth place among the 31 oil producing states, and stands in eleventh place as to known reserves.

Continued on next 2 pages



## TOP TEN FIELDS Crude Oil Production 1964

Figure No. 2



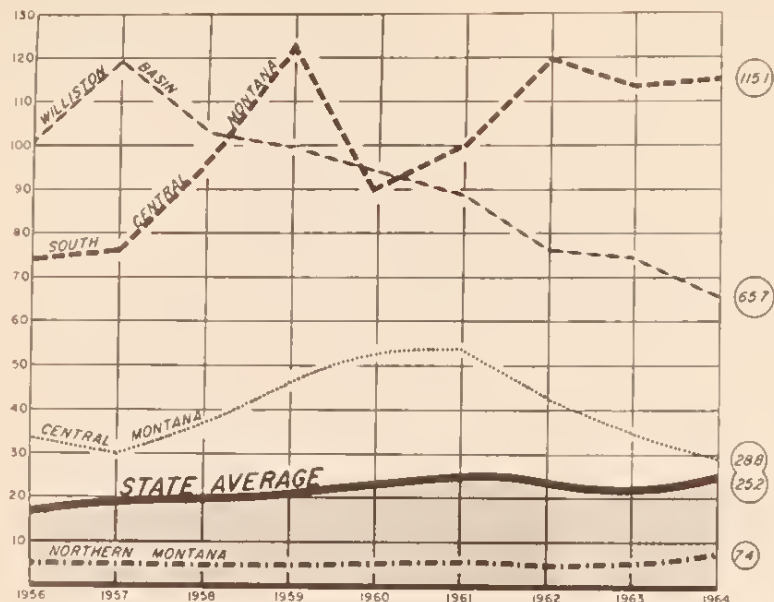


Figure No. 3

### - AVERAGE - DAILY PRODUCING RATE B.O.P./WELL

All of Montana's oil and natural gas production is located east of the Rocky Mountain front with 28 of the 56 counties experiencing the production of oil or natural gas or both. Some exploratory drilling has been completed in the southwestern part of the state with more anticipated. There are approximately 93,271,000 acres of land within the State of Montana. Roughly 33,750,000 acres is Federal land and (includes Indian, National Forests, Wildlife Preserves, etc.) 54,141,000 acres is fee and 5,380,000 acres is State owned. In 1961, over 26,000,000, about 28 percent of Montana's area was leased. Of this, 181,000 acres were productive

Petroleum surpassed copper in 1957, as the State's most valuable mineral resource, and since that time a steady increase in production has been experienced. A boon of great importance to the petroleum industry in recent years has been the construction of crude oil, natural gas and refined products pipelines. With these pipelines, new markets for raw crude, natural gas and refined products have been opened and transportation costs reduced adding incentive to petroleum exploration and production.

Crude oil pipelines now connect the four large producing areas of Montana to the midwestern markets. The Glacier pipeline connects the northern and central Montana areas to the refining center of Billings, and also of Byron, Wyoming, where it connects to the Platte Pipeline Company facilities, providing an outlet to St. Louis and Chicago. Central Montana is also served by the Crude Oil Pipeline Company, which carries crude to the Billings area, while south-central Montana crude comes to Billings via the Interstate Pipeline Company facilities. Eastern Montana crude oil is carried south by the Butte Pipeline to Wyoming, connecting with the Platte pipeline.

Daily crude oil production, in 1942, was 22,000 barrels and in 1964, just under 84,000 barrels per day. There are four major groups of oil fields, which groups are located in the northern, the central, south-central, and eastern portions of the State, and are made up of 92 fields. Of the total crude oil produced in 1963, the Williston Basin or eastern Montana group of fields, produced 58.6 percent, the northern Montana group 18.6 percent, the south-central Montana group 12.1 percent and the central Montana group 10.7 percent. (See Figure 1). Of the ten top producing fields, six are contained in the eastern group, two in the northern group, one in the central group, and one in the south-central group. (See Figure 2).

Figure No. 4

### NUMBER OF WELLS DRILLED

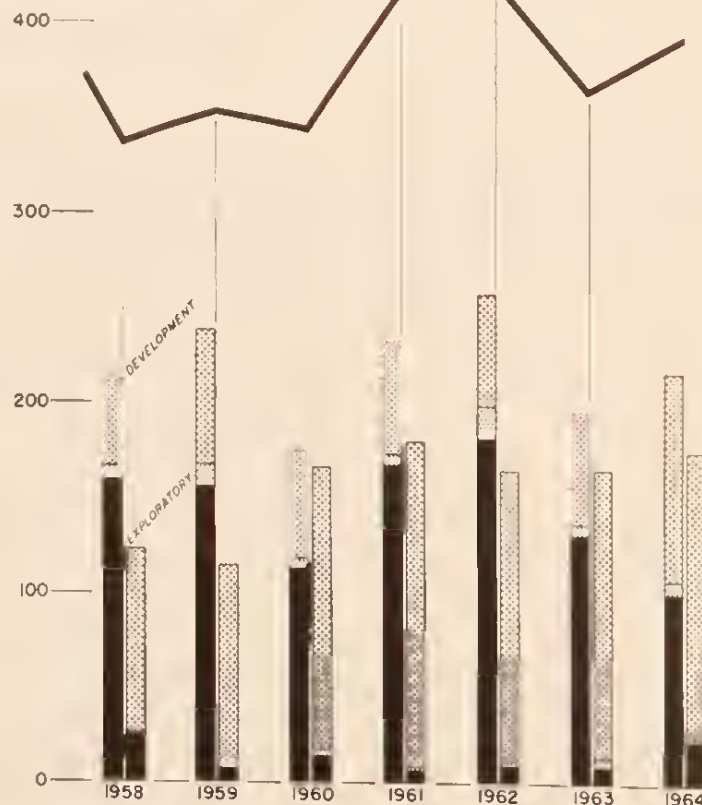
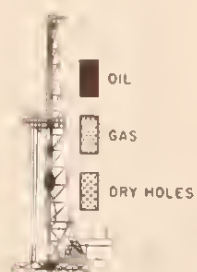




Figure 3 depicts the daily average barrels of oil produced per well from each of the four groups of fields, and in addition, the daily average production per well from all of the producing wells in the State. At the close of 1964 there were in the State 3,329 producing oil wells and 867 producing gas wells. During 1964, 391 wells were drilled and completed in the State. 175 wells were drilled as wildcats, 25 of which resulted in discoveries, 22 being oil wells and 3 being gas wells. 216 developed wells were drilled in the State of which 100 were completed as oil wells, and 7 were completed as gas wells. Figure 4 depicts the number of wells drilled and results for the period of 1958 through 1964, inclusive.

In 1964 ten refineries located and operating in Montana refined 32,007,320 barrels of crude oil. The ten refineries are reported to have a potential capacity in excess of 40 million barrels per year. The refineries and their locations are: Big West Oil Company at Kevin, Continental Oil Company at Billings,

Diamond Asphalt Company at Chinook, Farmers Union Central Exchange, Inc., at Laurel, Humble Oil & Refining Company at Billings, Jet Fuel Refinery at Mosby, North Star Refinery at Shelby, Phillips Petroleum Company at Great Falls, Tesoro Petroleum Corporation at Wolf Point, and Union Oil Company at Cut Bank. The Tesoro Petroleum Corporation refinery at Wolf Point formerly was operated by Petrofuels Refinery, Inc.

Montana's refineries are served by existing refined products pipelines which extend markets via the Yellowstone Products Pipeline west from Billings to Spokane, Washington, and intermediate areas, and via the Cenex Pipeline to Minot, North Dakota, and intermediate areas.

Additional statistical information concerning Montana for the years of 1949 through 1963, inclusive, will be found on Figure 5.



**MONTANA**  
**HISTORY OF PRODUCTION STATISTICS**  
Montana Oil and Gas Conservation Commission — U. S. Bureau of Mines — Soc. of Petr. Engrs. of AIME  
NA — Not Available

Year	Annual Liquid Hydrocarbon Production, Thousands of Barrels			Percent of Total Liquid Hydrocarbon Production	Producing Oil Wells at End of Year	Average Daily Oil Production Per Well, Barrels	Annual Gas Production, Millions of Cubic Feet			Percent of Total U.S. Gas Production	Producing Gas Wells at End of Year	Average Daily Gas Well Gas Production Per Well, Mcf
	Oil	Gas Liquids	Total Liquid Hydrocarbons				Gas from Oil Wells	Gas from Gas Wells	Total Gas Production			
1949	9,126	284	9,356	0.5	3,234	7.8	4,261	37,518	41,779	0.7	998	106
1950	8,112	251	8,363	0.4	3,365	6.7	3,364	39,770	43,134	0.6	1,013	108
1951	8,950	285	9,235	0.4	3,434	7.2	3,554	38,751	42,305	0.5	1,117	115
1952	9,580	209	9,789	0.4	3,521	7.5	3,373	29,061	32,434	0.4	977	80
1953	11,917	221	12,138	1.5	3,747	9.1	3,700	25,500	29,200	0.3	1,115	67
1954	14,192	300	14,492	0.6	3,828	10.3	3,714	27,232	30,946	0.3	1,057	69
1955	15,654	289	15,943	0.6	3,414	11.8	4,260	26,612	30,872	0.3	963	72
1956	21,760	262	22,022	0.8	3,584	17.0	6,388	22,385	28,773	0.3	1,185	57
1957	27,122	327	27,449	0.9	3,823	20.1	9,115	26,115	35,230	1.3	1,226	60
1958	27,957	354	28,311	1.0	3,916	19.8	7,989	22,976	30,965	1.3	1,087	54
1959	29,857	653	30,510	1.1	3,888	21.0	8,189	23,551	31,740	0.3	1,093	59
1960	30,240	627	30,867	1.1	3,707	21.8	9,677	25,009	34,686	1.3	1,104	62
1961	30,406	633	31,039	1.1	3,387	23.9	7,660	26,539	34,199	0.3	1,079	62
1962	31,641	624	32,271	1.1	3,692	24.5	7,765	23,672	31,437	0.2	1,077	60
1963	30,941	539	31,480	1.1	3,846	22.5	7,753	23,634	31,387	2	1,192	57

Year	Reserves at Beginning of Year (Estimated by A. P. I. and A. G. A.)						Figure No. 5					
	Oil Reserves			Gas Reserves			Oil Reserves			Gas Reserves		
Year	Percent Oil Production to Reserves		Oil Reserves	Percent Gas Production to Reserves		Gas Reserves	Percent Oil Production to Reserves		Oil Reserves	Percent Gas Production to Reserves		Gas Reserves
	Oil	Gas		Oil	Gas		Oil	Gas		Oil	Gas	
1949	118,944	7.7	4,000	5.8	122,944	0.5	85,605	4.4	5	37,832	NA	NA
1950	112,393	7.2	3,710	6.8	116,103	0.4	403,471	5.4	4	34,794	NA	NA
1951	111,272	8.0	3,547	8.0	114,819	1.4	797,461	5.3	4	33,067	NA	NA
1952	108,418	8.8	3,341	6.3	111,759	0.3	428,107	3.9	4	31,572	NA	NA
1953	156,181	7.6	3,129	2.1	159,310	0.5	827,603	4.4	4	44,357	NA	NA
1954	208,985	6.8	2,908	10.3	211,893	0.6	764,900	4.1	0.4	27,774	552,746	545,533
1955	272,394	5.7	7,179	4.0	279,573	0.8	723,731	4.3	0.3	21,158	585,281	585,281
1956	298,948	7.3	6,857	3.8	305,805	0.9	719,719	4.2	1	87,565	463,117	463,117
1957	331,414	8.2	8,145	4.0	334,559	0.9	696,334	5	1.3	53,712	420,177	420,177
1958	319,991	8.7	7,805	4.5	327,796	0.9	670,450	4.6	1.3	40,261	470,681	470,681
1959	337,799	8.8	7,497	8.7	345,296	0.9	682,013	4.7	0.3	74,544	421,248	421,248
1960	309,268	9.8	13,511	4.0	322,779	0.8	665,491	4.7	0.2	71,641	421,248	421,248
1961	266,687	11.6	11,688	4.4	278,375	0.7	626,178	4.7	0.2	74,180	421,248	421,248
1962	250,409	12.6	11,112	5.6	262,021	0.7	596,337	4.7	0.2	69,245	391,288	391,288
1963	248,860	12.5	10,488	5.1	259,348	0.7	600,177	4.7	0.2	69,245	391,288	391,288

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ABOVE: SADDLE CLUBS AROUND IN THE BIG SKY COUNTRY

ABOVE RIGHT: THIS MAGNIFICENT BULL ELK IS A PART OF THE NORTHERN YELLOWSTONE HERD WHICH WINTERS ON THE GALLATIN WINTER RANGE NEAR JARDINE, MONTANA. BIG GAME IN MONTANA INCLUDES DEER, ANTELOPE, ELK, ROCKY MOUNTAIN GOAT, BEAR AND CARIBOU

RIGHT: PACK TRAIN STARTING OUT FOR ONE OF MANY MONTANA BIG GAME HUNTING AREAS



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## WATER SUPPLY

One of Montana's **Great Assets**

By A. D. McDermott, Director  
Montana Water Conservation Board

Montana's abundant water supply represents one of its greatest resources. Water plays an important role in agriculture, for irrigation purposes, in industry as a source of power and for production processes, in the home, and in recreation. Huge undeveloped resources of high-quality water remain.

Two great rivers have their headwaters in the State: the Missouri, with its principal tributary, the Yellowstone, and the Columbia, with its principal tributaries, the Clark Fork and the Kootenai. It is along the major rivers and their tributaries that most Montana cities and towns are located.

As a headwaters state, Montana is blessed with an abundance of water in areas near our major streams since an average of 25½ million gallons of water per minute (or 41 million acre-feet per year) flow out of the State. This is enough water to irrigate nearly 15 million acres of new land or to supply water to approximately 35 cities the size of New York City! However, much of this water is not in the right place since 8/10 of Montana's land lies in the Missouri River Basin but only 4/10 of our surface water is found there, and conversely, only 2/10 of our land lies in the Columbia River Basin but 6/10 of our surface water is there.

Most of Montana's surface water is both clear and cold. Summer water temperatures rarely exceed 60 degree F, and sediment and dissolved solids are minimal.

Development of Montana's water resources has been carried on by private organizations and State and Federal agencies. The larger private projects are chiefly concerned with electric power production. The Montana Power Company operates a series of dams on the Missouri River, and also has dams on the Clark Fork and Flathead rivers and on Flint Creek in western Montana. Washington Water Power operates two dams on the Clark Fork in extreme western Montana.

The Montana State Water Conservation Board has built and supervises a number of water development projects. The Board was authorized in 1934, at a time when Montana agriculture was suffering from a severe drought as well as the depression. The Board's projects include storage dams and reservoirs, pumping units and irrigation canals, plus several domestic water supply systems. Approximately 400,000 acres of land are supplied with water from State Water Conservation Board irrigation projects.

In some areas, the State Water Conservation Board has an excess of stored water available for purchase at a nominal cost, if the use of the water would benefit the State.

The State Water Conservation Board measures and calculates discharge of streams in cooperation with the U. S. Geological Survey and it is the administrator of Montana's Ground Water Code. In addition, the Board is conducting a water resources survey, county by county, which is a complete record of surface water filings as of the date of the survey. Ground water

investigations are carried out by the Ground Water Branch of the Montana Bureau of Mines and Geology at Butte in cooperation with the U. S. Geological Survey.

Federal government projects are generally multi-purpose, providing for some combination of power production, navigation, irrigation, flood control, and recreational facilities. Two Federal agencies, the Bureau of Reclamation and the Corps of Engineers, construct and operate water development facilities in the State. The Bureau of Indian Affairs is in charge of water problems (chiefly irrigation projects) on Indian lands. Major Federal projects in Montana include Hungry Horse Dam on the south fork of the Flathead River near Columbia Falls (power, flood control), Canyon Ferry Dam on the Missouri River near Helena (power, flood control, irrigation and recreation), and Fort Peck Dam on the Missouri River (power, navigation, flood control, and recreation). Nearing completion is Yellowtail Dam on the Big Horn River near Billings (power, irrigation, and flood control). Clark Canyon Dam on the Beaverhead River near Dillon (irrigation and flood control) has recently been completed. An approved Federal project, Libby Dam on the Kootenai River near Libby (power, flood control) is now under construction.

Montana has hardly begun to realize its hydroelectric potential. Potential hydroelectric energy in Montana was estimated at 6,227,000 kilowatts in 1954 by the Federal Power Commission. Installed capacity of hydroelectric plants in Montana amounted to 1,369,242 kilowatts in 1964.

Water is essential to the State's important agricultural operations. Approximately 2 million acres of farmlands are irrigated in Montana, contributing to the stability of agriculture, particularly in eastern Montana.

Throughout the State, our many streams and lakes provide the basis for extensive recreational opportunities, both for Montana citizens and for its many vacation visitors. As the nation's population increases, and with the growing interest in outdoor recreation, these resources will undoubtedly assume even greater importance.

In parts of eastern and central Montana, underground water may be the most important source of water. U. S. Geological Survey officials have stated that Montana has many times more water underground than it has on the surface. Increasing water requirements for irrigation, industry, and domestic use have expanded interest in this resource which is as yet comparatively untouched.

Through efforts of the State Water Pollution Council and the State Board of Health, Montana is carrying out a water pollution abatement program. The State Board of Health enforces the regulations of the Council. As a result of this program, 105 out of Montana's 137 municipalities now have adequate sewage treatment facilities, 29 need additional facilities, and only 3 still have no sewage treatment facilities.

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## POPULATION AND LABOR FORCE

By Mrs. Maxine C. Johnson

Assistant Director

Bureau of Business and Economic Research

University of Montana

Missoula, Montana

### POPULATION

Approximately 705,000 persons were living in Montana on July 1, 1964, according to a Bureau of the Census estimate. 1 The state's population is growing somewhat more slowly than is the national population, between 1960 and 1964 the increase in Montana was 4.5 percent and national growth amounted to 6.7 percent.

By 1976, Montana's population will probably number around 900,000. Projections by the Bureau of the Census and the Outdoor Recreation Resources Review Commission indicate that the state's population in that year is expected to reach a figure somewhere between 852,000 and 955,000, 908,000 is selected as a reasonable expectation. 2

### ALTERNATE PROJECTIONS OF MONTANA'S TOTAL POPULATION IN 1976

High:	Assuming high migration	955,000
	Assuming low migration	942,000
Low	Assuming high migration	866,000
	Assuming low migration	852,000
	Judgment projection:	908,000

1. Provisional estimate. Bureau of the Census, Current Population Reports, Population Estimates, Series P-25, No. 294, U. S. Government Printing Office, Washington, D. C., November 5, 1964, p. 10.

2. Outdoor Recreation Resources Review Commission, Projections to the Years 1967 and 2000: Economic Growth, Population, Labor Force and Leisure, and Transportation, ORRRC Study Report 23, U. S. Government Printing Office, Washington, D. C., 1962, pp. 12-16.

The National Planning Association, on the other hand, has projected Montana's 1976 population at 887,000. 3

Although Montana generally is known as an agricultural state, its population is becoming increasingly urban. In 1960, slightly over 50 percent of the state's residents lived in urban areas — towns and cities with over 2,500 inhabitants. Of the other 50 percent of the population, 16 percent lived on farms and 34 percent in rural-nonfarm areas. 4

### MONTANA'S POPULATION IN 1960

Total population	674,767
Urban	338,457
Rural-nonfarm	230,712
Rural-farm	105,598

As in the United States as a whole, future increases in population will occur chiefly in Montana's urban areas. As the trend toward larger and fewer farm and ranch units continues, rural-farm population will decline further. The rural-nonfarm areas, consisting largely of trade centers serving a decreasing number of rural residents, will find it increasingly difficult to maintain their population unless new bases of economic activity are established.

The nine largest cities in Montana are Billings, Great Falls, Butte, Missoula, Helena, Bozeman, Anaconda, Havre, and Kalispell. The 1960 population of the counties in which these cities are located were: 5

3 Ibid., p. 416.

4 Bureau of the Census, U. S. Census of Population 1960. General Social and Economic Characteristics, Montana, Final Report PC (1)-28c, U. S. Government Printing Office, Washington, D. C., 1960, p. 28-87.

5 U. S. Bureau of the Census, U. S. Census of Population. 1960 Number of Inhabitants, Montana, Final Report PC (1)-28A, U. S. Government Printing Office, Washington, D. C., 1960, p. 28-11.

### COUNTY

### POPULATION

Yellowstone (Billings)	79,016
Cascade (Great Falls)	73,418
Silver Bow (Butte)	46,454
Missoula (Missoula)	44,662
Flathead (Kalispell)	32,965
Lewis and Clark (Helena)	28,006
Gallatin (Bozeman)	26,045
Hill (Havre)	18,653
Deer Lodge (Anaconda)	18,640

Together, these counties accounted for 54 percent of the total 1960 population of the state.

Montana's residents are predominantly white and native born. In 1960, 96 percent of the population was white, with the bulk of the non-white population made up of American Indians, most of whom live on reservations. Native born citizens make up 96 percent of the total population, of the foreign born, the majority are of Canadian, Scandinavian, or German descent.

Montanans rank high in educational achievement. The median years of school completed by persons 25 years of age and over was 11.6 in 1960; the U. S. median was 10.6. Of Montana's young people between the ages of 5 and 24, 72.4 percent were enrolled in school, in the United States the percentage was 71.8.

### LABOR FORCE

Montana, like the other states of our Union, has a variety of talent. While the ratio of our population to land area reflects the fact that we are less densely populated than many of the other states, this does not detract from the quality, training and skill of our manpower.

Montana's civilian labor force in 1964 was estimated at 253,600 by the Unemployment Compensation Commission. 6

6 Monthly average Unemployment Compensation Commission of Montana, Montana Civilian Work Force, mimeographed report, January 14, 1965.

### MONTANA LABOR FORCE, 1964

Total civilian work force	253,600
Employed	241,700
Agriculture	36,700
Nonagricultural industries	205,000
Unemployed 7	11,900

The National Planning Association estimates that by 1976 the labor force in Montana will have grown to 310,000. 8 This figure is used in conjunction with a projected state population in 1976 of 887,000.

The latest year for which detailed information about the labor force is available in 1960, year of the last decennial census. As of April 1, 1960, the Bureau of the Census reported a civilian labor force of 248,073 in Montana, of this number, 231,270 were employed. The industry groups providing the largest number of jobs were agriculture, retail trade, services, and government. 9

7 Includes 200 idled by labor-management disputes.

8 Outdoor Recreation Resources Review Commission, op. cit., p. 347.

9 U. S. Bureau of the Census, U. S. Census of Population. 1960 General Social and Economic Characteristics, Montana, Final Report PC (1)-28c, U. S. Government Printing Office, Washington 25, D. C., 1960, p. 28-106.



**MONTANA'S LABOR FORCE**  
**BY INDUSTRIAL GROUP (In Thousands)**  
**JULY 1965**

1 Civilian Work Force	275 0	48 & 49 Utilities, including commercial	6.3
2 Unemployment	8.6		
Percent of work force	3.1	Trade	44.2
3 Employment, total	266.0	Wholesale trade	8.6
(a) Non-agricultural wage and salary	186.1	Retail trade	35.6
<b>MANUFACTURING</b>	23.3	53 & 56 General merchandise & apparel	6.9
Durable goods	14.8	54 Food and liquor stores	5.6
24 Lumber and timber products	9.2	58 eating & drinking places	10.0
33 Primary metals	3.8	55 auto & service stations	7.1
Other	1.8	59 retail trade & miscellaneous	6.0
Nondurable goods	8.5		
20 Food and kindred products	4.5	Finance, insurance & real estate	7.1
27 Printing and publishing	1.8	Service	25.9
29 Petroleum refining	1.3	70 Hotels, rooming houses, camps, etc	4.0
Other	.9	72 Personal services	2.1
<b>NON-MANUFACTURING</b>	162.8	Other	19.8
Mining	7.4	Government	45.8
10 Metal mining	4.7	91 Federal	13.0
12 & 14 Coal and quarrying	1.1	92 & 93 State and local	32.8
13 Petroleum and natural gas	1.6	(b) All other non-agricultural employment 1)	31.5
Contract construction	14.0	(c) Agriculture	48.4
15 Building	4.0		
16 Other than building	4.4	4 Persons involved in labor management dispute	4
17 Special trade	5.6		
Transportation and utilities	18.4	1) Includes non-agricultural, self-employed and unpaid family workers, and domestic workers in private households.	
40 Railroads	8.0		
41-47 Transportation, except railroads	4.1		

10 U. S. Department of Labor, Bureau of Employment Security, Form ES 2190, Standard Statewide Monthly Work Force Summary Report, August 1965

In terms of employment, the fastest-growing industry groups in recent years have been government finance, construction, and services. Metal mining and transportation (railroads) and, of course, agriculture have experienced declines in employment over the past few years. The drop in metal mining employment apparently ended in 1964, when the number of mine workers increased slightly.

A substantial proportion of Montana workers, particularly in the larger towns, are unionized. Membership in AFL-CIO unions was estimated at 50,000 in 1960. 11 This estimate does not include members of the independent unions such as the teamsters and the mine, mill and smelter workers.

Unemployment in the state since 1962 has been somewhat lower than in the U. S. as a whole, averaging 5 percent of the labor force in 1962 and slightly less than 5 percent in 1963 and 1964. 12 However, the state typically experiences a net loss through out-migration of persons in the working age groups. Many of these migrants would prefer to remain in Montana if satisfactory job opportunities were available.

Average hours and earnings of workers in Montana's manufacturing, mining, and utilities industries during 1964 were: 13

11 U. S. Bureau of the Census, Statistical Abstract of the United States, 1963, Eighty-fourth Edition, Washington, D. C., 1963, p. 249.

12 Unemployment Compensation Commission of Montana, Montana Civilian Work Force, mimeographed reports, June 1964 and January 14 1965

13 Excludes administrative and salaried personnel. Unemployment Compensation Commission of Montana, Montana Labor Market Supplement FL 262, March 1965.

Industry	Average Hourly Earnings	Average Weekly Hours	Average Weekly Earnings
All manufacturing	\$2.71	40.5	\$109.76
Durable goods	2.64	40.9	107.98
Primary metals	2.76	40.0	110.40
Nondurable goods	2.87	39.7	113.94
Food and kindred products	2.49	41.0	102.09
All mining	2.95	38.9	114.76
Metal mining	2.97	37.7	111.97
Utilities and communications (except transportation)	2.76	39.4	108.74



### educated youth . . .

Both state and private schools in Montana offer advanced courses in technical studies enabling industry's technical personnel to continue their education.

Organized research is carried on at the institutions of higher learning, government agencies, and private business organizations. Some of this research has been directly responsible for new industry in Montana.



### skilled labor . . .

Montana has an available source of skilled labor. More of Montana's labor force have been shifting from agriculture and mining to manufacturing.

Montana's labor is not only competitive on a rate basis, but it is more than competitive on a productivity basis. This is because the Montana workman is above average in education. Furthermore, a large portion have ranch or farm backgrounds and are therefore mechanically inclined, adaptable, dependable and self-reliant. The Montana laborer is happy in his surroundings as a result of all the benefits derived from living in Montana.



HEDGES HALL, MONTANA STATE UNIVERSITY, BOZEMAN

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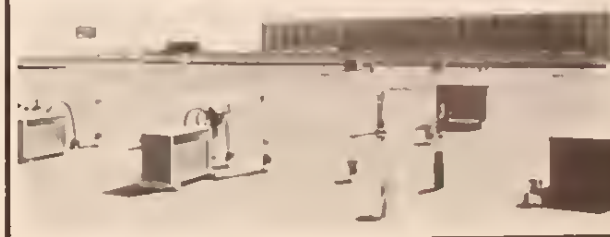


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# Fine Arts In Montana

By Michael Kennedy, Director  
Historical Society of Montana



ERECTING MONTANA TELEPHONE LINES—THIS DIORAMA, LOCATED IN THE INDUSTRIAL FRONTIER SECTION OF THE MONTANA HISTORICAL SOCIETY, DEPICTS COMMUNICATIONS PROGRESS IN THE TREASURE STATE. THE FIGURES AND OBJECTS IN THE FOREGROUND BLEND INTO THE BACKGROUND OF ART TO PRODUCE A FEELING OF DEPTH AND EXPANSE



FORMAL C. M. RUSSELL ROOM—ONE OF THE PRIME POINTS OF INTEREST IN THE MONTANA HISTORICAL SOCIETY BUILDING IS THIS GALLERY ON THE MAIN FLOOR HOUSING ONE OF THE COUNTRY'S MOST REPRESENTATIVE COLLECTIONS OF ORIGINAL ART MADE BY CHARLES M. RUSSELL. INCLUDED ARE EXAMPLES OF SOME OF THE COWBOY ARTIST'S EARLIEST WORKS IN WATER COLORS AND OILS AS WELL AS MAJOR PAINTINGS AND SCULPTURES CREATED WHEN HE WAS AT THE HEIGHT OF HIS POWERS AFTER THE TURN OF THE CENTURY AND UNTIL HIS DEATH IN 1926

MONTANA HISTORICAL SOCIETY LIBRARY—A VIEW OF THE MODERN, WELL-LIGHTED AND EQUIPPED READING ROOM OF THE LIBRARY, LOCATED ON THE SECOND FLOOR OF THE HISTORICAL SOCIETY BUILDING. SPECIAL READING STANDS ARE DESIGNED TO HOLD BOUND VOLUMES OF MONTANA NEWSPAPERS, FILES OF WHICH DATE BACK TO 1865. FIVE STACK LEVELS OFF THIS ROOM ARE HUMIDITY CONTROLLED TO PRESERVE ONE OF THE NORTHWEST'S BEST COLLECTIONS OF THE RAW STUFF OF HISTORY



Following a recent visit to the Treasure State — his first in many years — the able NEW YORK TIMES editor, J. Donald Adams observed "Of all the Rocky Mountain states, if we omit New Mexico and Arizona, Montana has made the finest regional contribution to the arts of painting and writing. All over Montana interest in the Arts is mounting! Up at Browning, on the edge of Glacier National Park, where I went to watch Indian dances, and to see old friends among the Blackfeet and their Canadian cousins the Bloods, there is a remarkable museum devoted to the culture of the Plains Indians, down in Missoula, creative activity bubbles at the University of Montana, over in Bozeman, the arts are lively at Montana State University. When the visitor moves on to Helena, a State Capital whose main street bears the factual name of Last Chance Gulch, he will find that the State Historical Society is doing fine things in constructive commemoration of the old West — splendidly executed dioramas, a fine collection of the paintings and bronzes of Charley Russell, and publishing its outstanding MONTANA, THE MAGAZINE OF WESTERN HISTORY, and THE MONTANA HERITAGE SERIES."

The creative talent of Montana has been quite prodigious. To mention a few — Artist Charles M. Russell; writers A. B. Guthrie, Jr., Joseph Kinsey Howard, Dorothy M. Johnson, Mildred Walker, Frank Bird Linderman, James Willard Schultz, Dan Cushman, Walt Coburn and Hector Cheyney, Actors Gary Cooper and Myrna Loy, Historians E. S. Osgood, Paul C. Phillips, Robert G. Athearn, and Merrill G. Burlingame, Photographers Frank J. Haynes, L. A. Hulfman, Christian Barthlemess and Dan Dutro; the NBC television commentator Chet Huntley, and many others have been part of a surprisingly erudite tradition.

There is no doubt that much of the State's rather phenomenal creative art tradition stems from Charles M. Russell, The Cowboy Artist, who came to Montana as a youth in 1880 and who prolifically painted, sketched, sculptured and wrote his now world-acclaimed masterpieces. Very recently in another nationally syndicated article by the NEW YORK TIMES, Irving Olliard wrote:

## WITH COWBOY BUFFS IT'S CHARLIE RUSSELL

The greatest of all the artists of the rough and ready American West of the eighteen-eighties and nineties? Leave it to the cowboy buffs if you want to get an unanimous canyon-filling shout for an answer. And that shout would be for Charlie Russell who signed his oils and watercolors "C M Russell," but who was named quite properly Charles Marion Russell by his parents when he was born in St. Louis, Mo., 101 years ago.

Story teller and historian as well as artist, the drawing Montanan spent most of his life around Great Falls, where he died October 24, 1926. There are Russell devotees who say that his thousands of paintings and sketches and illustrations of Indians, mountain men and bull-whackers, buffalo, horses and cattle left even Frederic Remington rivers and buttes behind.

Russell made his first visit to New York City in 1902 at the urging of two magazine illustrators, John Marchand and Will Crawford, who saw his work in Montana.

He talked and wrote the way his Montana friends did and so he described New York in these words on his return west:

"Were y'u ever in a close room, an' had to stay there till the meetin' was over, an' finally y'u got so that y'u felt like y'd had to get out in the open air an' yell or y'd bust? Well, that's me. I'm right from New York an' I want to say New York is all right for them who like that sort of rush an' crush an' pack an' jam. But for me, I want room, I want breathin' space, I want laid enough to turn 'round on without jostlin' anybody, and I've come back to Montana to get it."

In yet another widely discussed 1965 national news story, Nancy Adler wrote: "The art world is experiencing a bonanza in Western Americana these days."

"Collectors in increasing numbers are tracking down paintings and sculpture depicting cowboys, Indians, trappers, buffalo, Texas steers, medicine men, the cavalry and the wide open plains of the West."

Perhaps the most sought-after works are those by Charles M. Russell, (1864-1926) and Fredric Remington (1861-1901), two of the country's most prominent Western artists.

Broke and hungry in 1896, Russell traded a pair of oil paintings "Indian Buck" and "Indian Squaw" to two men in Montana for about \$5.00 in groceries. Today the paintings — each 22 by 10 — are on display at the Hammer Galleries, 51 E. 57th St., for sale at \$32,000. Other paintings by Russell are selling for as high as \$100,000.

Several explanations for the soaring prices and popularity of Western Americana have been suggested. The tremendous appeal of Western drama on television and in the movies, growing interest in U. S. history, recognition of the genuine talents and craftsmanship of the artists, the popularization of the arts in this country. In addition, Western Americana, like paintings of other schools, has become a status symbol.

Castings of Remington's "Bronco Buster" in the mid-1930's sold for \$350.00. In 1965 the price was \$9,500."

The preservation of items which will recall the best of Montana's colorful historic past had an early beginning in a number of communities. Further mention will be made of the Historical Society Museum in Helena and the Trigg-Russell Gallery in Great Falls. Two other museums, maintained by the Federal government, the Museum of the Plains Indians in Browning, established about 1933, and the Custer Battlefield Museum, built in 1951, are outstanding in their fields. One of the most valuable collections of minerals in the world is contained in the collection of the Montana School of Mines in Butte, and Montana State University is developing an important collection of Indian and other items. A new World Museum of Mining is now under long-range development in Butte. One of the unique museums of the region is that in the high school at Ekalaka, devoted largely to natural history. It has attracted national attention for its original discoveries in the field of paleontology.

As far as a cultural tradition is concerned, Montana has only begun to tap her unusually rich resources of human talent and material possibilities. The past few decades have seen a continuing upsurge in interest as well as practice. This interest has the solid foundation of mature development behind it.

## THEATER AND ORAMA

Because of the richness of the early gold strikes, the theater assumed unusual significance in Territorial days. With the coming of motion pictures Montana largely dropped out of the principal tour route of major traveling shows and theatrical impresarios, but the germ of this has taken root in several well-established and highly reputable summer stock theaters, highly regarded today by critics who have seen them. The best known of these are at Bigfork, Helena and Virginia City.

The theater played its part in the taming of the Western frontier along with the forces of law and order, the church and the school. Trail-blazing thespians were close behind the earliest gold-seekers and the plays they offered generally conveyed moral lessons as uplifting as those preached from the pulpits.

The Black Hills, the first trial of Jack McCall for the shooting of "Wild Bill" Hickok was held in Jack Langrishe's Deadwood Theatre. In Helena, a few years after the Territorial Capital was moved there from Virginia City, the Territorial House convened in Sawtelle's Theatre during the Extraordinary Session of 1879.

Rimini, a mining camp near Helena, got its name from one of the plays in which Lawrence Barrett appeared on his only visit to Montana.

The Langrishes, most notable of all the theatrical pioneers of the Rocky Mountain region in the Sixties, were close personal friends of Bishops Daniel S. Tuttle and Ethelbert Talbot of the Episcopal Church.

"They attended church when they could," wrote Bishop Tuttle in his book, "Reminiscences of a Missionary Bishop," "and I went to the theater when I could."

Early-day residents of the Montana mining camps knew their Shakespeare. Occasionally they saw HAMLET, MACBETH, OTHELLO and other works by the master dramatist performed by actors schooled in the provincial theaters of England. Early-day editors made frequent and apt quotation from these plays.



Montana had a theater before it had a newspaper, weeks before the Territory was created by Act of Congress. The first dramatic performances in the Northern Rockies were staged at Virginia City in March 1864 by a semi-professional troupe. In the company were Mrs. Jehiel B. Caven and others.

Flora Caven, before her marriage to "Buzz" Caven, a popular young violinist, was well-known in Denver as the youngest of the three Wakely sisters, "first ladies of the Rocky Mountain stage." With her sisters, Rose and Louise, she had appeared at Denver's Appollo Hall with Charles R. Thorne's company, in the first theatrical performance of record between Leavenworth and Salt Lake City. This was in 1859, nearly three years before her arrival in Montana.

In September 1864 a new company was formed by James W. Martin and DeWitt C. Waugh. Martin and Waugh, like Mrs. Caven and Irving, were graduates of Colorado's early-day theaters.

By the end of November, Virginia City residents watched with interest the transformation of a large building "opposite the post office on Jackson Street" into a "neat and comfortable little theater" — comfortable at least in mild weather. Its doors were opened Saturday, December 10th, with FAINT HEART NE'ER WON FAIR LADY and THE SPECTRE BRIDEGROOM. Mrs. Caven sang "Annie Laurie" and Martin recited "Villikens and His Dinah."

In September 1865 the Pioneer Dramatic Company, the first all-professional troupe to reach the territory, arrived from Salt Lake City. This Company was headed by Mr. and Mrs. George Chapman, members of America's first "showboat family." Their first offering in Virginia City was THE LADY OF LYONS, with Mrs. Chapman as Pauline, Edwin Clarke, Beauseant, Harry Taylor, Claude Melnotte, and Sam Chapman, Glavis.

That evening, while nearly everyone in the vicinity of Alder Gulch was sharing the anguish of Bulwer's heroine, "thieves broke into the store of I. H. Castor & Co. and stole \$1,408 in bankable dust."

The Chapmans went on to Helena. In January 1866, Oick Johnson, who had managed the Wakely Sisters' first mountain tour in Colorado six years earlier, litted up a new theater in a hall over the Montana Billiard Saloon on Wallace Street. This served as a playhouse for a few weeks. Then Johnson moved scenery, "props" and actors to the larger building on Jackson Street, re-christening the house The People's Theatre — a designation it bore for the remainder of its days.

At a testimonial benefit March 19th, General Thomas Francis Meagher, the Territorial Secretary, gave the then popular star, on behalf of the citizens of the camp, a ring, brooch and earrings of Alder Gulch gold.

When the curtain was rung down on the last act of CAMILLE on April 13th, lead actors were again called to the footlights. Sam Word, pioneer attorney, stepped forward and gave Seldon Irwin a brick of Montana gold, valued at \$711.

D. W. Clipperton and Miss Douglas took over the management of the People's in July, shortly before the arrival from Salt Lake City of Julia Dean Hayne. Mrs. Hayne was the first actress of national renown to reach the Territory. As Julia Dean, she had been a great favorite throughout the South and East in the early 1850's. Her popularity waned in the North following her marriage in 1855 to Arthur Hayne, son of Senator Robert Young Hayne of South Carolina, but she won new followings during the war years in California, Oregon, Nevada and Utah.

C. W. Kidder, advance agent for the Chapman's Pioneer Dramatic Co., arrived in Last Chance Gulch in October 1865, a year after Helena's christening. Kidder leased Leviathan Hall on Bridge (now State) Street, had a stage built at one end and rough benches installed. In this, Helena's first "theatre," the Chapmans gave the first theatrical performances in the camp that was to become Montana's third territorial, and eventually its state, capital.

The Chapmans remained in Helena through November and December 1865, filling Leviathan Hall for their productions of THE FRENCH SPY, LA TOUR DE NESLE, and THE LADY OF LYONS. (Like the Chinese, mining-camp audiences found the drama no less enjoyable when they knew the plays by heart.)

In January 1866 Oick Johnson brought his troupe on from Virginia City. A new theater with seats for 300 was opened on Wood Street, in the C. C. Huntley Building (June 18th) by the Irwins. The MONTANA POST, still published at Virginia City, but with a column of Helena news in each issue, referred to the new playhouse as "Irwin's Theatre." Mrs. Kitty Nuttall occasionally appeared with the Irwins.

Julia Dean Hayne arrived in Helena late that summer, still under the Potter's management. She was seen in CAMILLE, THE LOVE CHASE, MADELEINE, GRISELDIS, THE LADY OF LYONS and THE MASSACRE OF ST. BARTHOLOMEW.

In the Spring of 1869, the HELENA HERALD announced the Parkinson Brothers were building a new theater on Main Street, "opposite the International Hotel." It was to seat 1,200 and the estimated cost was "about \$12,000 in currency."



Commanding the entire length of the Formal Museum, this is the major contribution of the people of Montana to the perpetuation of one of the most stirring events in United States history—the Lewis and Clark Expedition. This massive diorama—the largest ever devoted to this important historical subject—is 21 feet wide, 10 feet high and almost 20 feet deep. It was conceived by John C. Ewers of the Smithsonian Institution and Gardell Dano Christenson of the American Museum of Natural History. Its skillful execution, requiring almost a year and a half, was largely the product of three highly talented young Montana artists. The sculptor of the 26 heroic-sized human figures was A. Rudy Autio of the Bray Foundation, Helena. The background artist was Leslie Peters, noted wildlife painter of Great Falls. Coordinating and arranging was handled by Robert F. Morgan, Curator of the State Historical Museum. The scene depicts the breaking of the last Montana river camp near the Beaver's Head in Southwestern Montana on the morning of August 9, 1805, as the expedition neared the Rocky Mountain fortress. They were desperately in need of horses if they were to succeed in reaching the Pacific Ocean. Captain Lewis and party of three are here seen departing in search of the Snake Indians, known to possess the horses they so sorely needed and which they subsequently obtained.

VIRGINIA CITY DIORAMA—A METICULOUSLY DETAILED MODEL OF MONTANA TERRITORY'S FABLED TOWN WHICH SPRAWLED ALONG ALDER GULCH AND BECAME HER SECOND TERRITORIAL CAPITAL AFTER THE PLACER DISCOVERIES IN 1864 FIRST SUPERSEDED THOSE AT BANNAK. THE DIORAMA DOMINATES THE MINING FRONTIER SECTION OF THE FRONTIER MUSEUM, LOCATED ON THE MAIN FLOOR OF THE HISTORICAL SOCIETY BUILDING.



EXTERIOR VIEW OF THE MONTANA HISTORICAL SOCIETY BUILDING LOCATED IN THE CAPITOL COMPLEX AT HELENA, MONTANA. FOR AN INSPIRING TOUR OF THE PAST THIS IS A TOURIST MUST WHICH WILL BE ENJOYED BY YOUNG AND OLD ALIKE.





Miss Price opened the Langrishe Opera House before a \$1,500 audience, appearing in the dual roles of Lady Isabel and Madame Vine in *EAST LYNNE*. The play proved such a hit that it was repeated the following evening. After starring in *THE LONG STRIKE*, *LEAH THE FORSAKEN*, *SOLOIER OF FORTUNE* and *THE LANCASHIRE LASS*, Miss Price left "by the morning coach" for Corinne, Utah — the nearest railroad to Helena — and the States.

Amy Stone came from Salt Lake City as the next quest star. She played to the largest audience thus far assembled in Helena in *THE HIDDEN HANO*. This was followed by *THE PEARL OF SAVOY*, *THE FRENCH SPY* and *OTHELLO*.

J. Al Sawtelle had appeared in various theaters throughout the East before his arrival in Montana in 1878. In 1869 he was a member of Frank Lawlor's excellent stock company at Albany, N. Y. The company he brought to Helena included many prominent actors of the day. They played for 56 consecutive weeks in Montana in 1878-79. This included 56 performances in Helena, 41 at Loeber's Hall, Butte, 21 in Virginia City, 15 at Deer Lodge, 8 at Fort Ellis, 5 at Fort Shaw and from one to three performances at each of these places. Diamond City, Twin Bridges, Sheridan, Radersburg, Stevensville and Fort Benton.

During Sawtelle's tenure of the former Germania Hall, the house was remodeled and reopened January 13, 1879, with *ROSEDALE*. Admission now was \$1.00 and \$1.25. After a six-weeks' engagement in Helena, the company set out on a tour of the territory in two four-horse coaches. The route included Jefferson City, Silver Star, Sheridan, Virginia City, Glendale, Butte, Philipsburg and Missoula. The troupe was back in Helena on May 15 with *RICHESIEU*, but left on May 29 "for the North" — Fort Benton and Fort Shaw.

While Sawtelle was "on tour," the Nellie Boyd Dramatic Company occupied Sawtelle's, presenting *A CELEBRATED CASE*, *LED ASTRAY* and *KATHLEEN MAVDURNEEN*. That September, during the Territorial Fair, Helena playgoers had two troupes from which to choose. Sawtelle's or the Nellie Boyd Company, which gave six performances at the county courthouse.

Excavation for Helena's finest theater, Ming's Opera House, began in April 1880. While the new theater was under construction, the Henrietta Irving Combination occupied Sawtelle's briefly. This Company, which had come up the Missouri River by steamboat, appeared in Fort Benton and Fort Shaw on their way to Helena, and in Butte before returning to the head of navigation.

The elite of the Territory turned out when the doors of Ming's Opera House finally opened. Admission was \$1.00 and \$1.25, as at Sawtelle's and the Helena Herald reported that "the attire of the ladies was in keeping with the hall in which the audience was assembled. The general effect when the lights were turned on was brilliant in the extreme." Programs for the Grand Opening were printed on scented satin. John H. Ming, who had removed the Ming stables to make way for the theater, was "greeted with acclaim" as he came on stage to receive a tribute from Major Martin Maginnis, Territorial delegate to Congress. Miss Putnam recited a poem in which local personages were mentioned. Then the play, *THE OLD CURIOSITY SHOP*, was presented.

The Hasenwinkle Dramatic Company remained in Helena for nearly three weeks, presenting *THE PEARL OF SAVOY*, *THE LITTLE DETECTIVE*, *LENA THE MADCAP*, *FANCHON THE CRICKET*, *JANE EYRE*, *NAN*, *THE GOOD-FOR-NOTHING*, and other vehicles to display Miss Putnam's elin charm.

Now that Helena was re-established on the theatrical map of the Northwest, Butte also was deemed worthy of a four-to-six night stand by the many traveling companies which reached the Territory. When John Maguire first visited Montana in the summer of 1875, Butte was enjoying its first modest boom as a silver camp. The little settlement of log cabins then had no public hall nor even a schoolhouse where a wandering thespian could "put on a show." Maguire gave his program of songs and recitations that summer in a newly completed store building, before the stock of merchandise had arrived. In this makeshift hall he played three nights "to crowded houses," he recalled years later, in a camp that boasted of only 300 inhabitants.

John Maguire was a cousin of Tom Maguire, who built the Jenny Lind and other early-day theaters in San Francisco, and Maguire's Grand Opera House in Virginia City, Nevada. Maguire became Montana's leading theatrical impresario. He managed Ming's Opera House in Helena (1884-89), two theaters in Butte (1885-1900), the Margaret in Anaconda and the Grand Opera House in Great Falls. He also formed a northern extension to Colorado's "Silver Circuit" and booked touring companies for theaters for the Bozeman and Missoula theaters.

Butte's first Grand Opera House was opened in July 1885 by the Wallace Theatre Company of New York. Charles Frohman, who was to become one of the nation's leading producers, then was managing the Wallace Company, which opened with Henry Guy Carleton's *VICTOR DURAND*. This theater was destroyed by fire July 24, 1888. It was rebuilt at once on the site of the fire and the new house opened February 28, 1889, by Rose Osborn in *A CELEBRATED CASE*.

To one or the other of these houses, Maguire brought such stars as Sarah Bernhardt, Clara Morris, Lotta, Maggie Mitchell, Mme. Rhea, Fanny Davenport, Modjeska, Sol Smith Russell and Alexander Salvini. He also booked the best of traveling musical groups — the Bostonians, the Emma Abbott and Emma Juch Opera companies, and concert stars such as Clara Louise Kellogg, Ovid Musin and Joseffy.

Like Langrishe before him, Maguire was either unable or unwilling to change with the public's taste in entertainment. When Richard Perry (Uncle Dick) Sutton introduced cheap stock company shows to Butte near the end of the century, Maguire bowed out of the picture, in 1902 and notable "theater" languished in Montana until more recent years.

Montana has been fortunate in having a number of pioneer photographers who had the historical sense to preserve priceless frontier scenes. Probably the best known collection is that of L. A. Huffman, still at Miles City. Another exceptional craftsman was Christian Baithelmess of Fort Keogh. Huffman came to Miles City in the early 80's as a young man, and with the encouragement of Frank Jay Haynes and others, followed an amateur avocational interest in photographing scenes from the range, until his collection became one of the largest and best in the nation. Many of the portrait photographers of the gold rush and cowboy periods also took an interest in the locality and accumulated pictures of unusual historic value. Among these, the Train and Reing Galleries in Helena, the Culver studio in Lewistown, the Dutto studio in Fort Benton, and the Schlecten Brothers of Anaconda and Bozeman became well known. In more recent years, pictures taken and collected by Leslie H. Jorud of Helena and Owen C. Smithers of Butte are considered rich in topical items. No doubt the best known scenic photographer of the region was Frank Jay Haynes, who, in 1880, was appointed official photographer of the Northern Pacific Railroad. He set out in the summer of 1881 in a horse drawn vehicle to precede the building of the railway and publicize the country through which it would run. This trip took him into the Yellowstone region where he took extensive stereoscope pictures. This was the first of 40 consecutive seasons which he spent in what became our first great national park. Haynes was the photographer, too, for the historic driving of the golden spike completing the Northern Pacific Railroad in September 1883. In 1885, he rebuilt a passenger car into the Haynes Palace Studio Car, and with this portable gallery he carried on photographic work throughout the entire Northwest. His interest in Yellowstone Park continued until he became its official photographer, and this long-span work was continued by his son, Jack E. Haynes, who added to the extensive collection of Park, Indian and historic pictures. A major book has recently been published on this subject.

Montana has a proud tradition in the literate level of her people. The Montana Historical Library was established by the first Territorial Legislature and has developed a world-famous research collection in the past century.

Notable gifts were responsible for many of the exceptional public library facilities in the state. At Deer Lodge, the William K. Kohr's Memorial Library was founded by the Cattle King, Conrad Kohr, as a tribute to his son; as was the Parly Billings Memorial Library, erected by Frederick Billings, President of the Northern Pacific Railroad, in memory of his son, Parly. Anaconda profited by the generosity of Mrs. Phoebe Hearst, mother of William Randolph Hearst, who gave a fine structure known as the Hearst Free Library. The Butte Free Public Library took its origin in a gift by Charles X. Larrabee in 1890, and the Helena Public Library, since 1933, has been located in a large building given to the City and dedicated to the memory of Ellen M. Oean. Andrew Carnegie's generosity extended to Montana as well in other fine public library buildings at Missoula, Miles City, Bozeman and Great Falls.

Librarians of the new state early came to realize that they needed an association to further the development of library services; and on May 17, 1906, the first meeting of the Montana State Library Association was held in Missoula. The first president of the Association was Granville Stuart, one of the West's outstanding pioneer figures. Over the years this organization has given yeoman service in spearheading legislation and publicizing library services. Public libraries, tax-supported by cities and towns, were early accepted as a local responsibility. In 1915, leaders such as Miss Gertrude Buckhous, librarian at Montana State University, brought about the first county library law, with the modern emphasis on the larger tax unit for the most effective and economical service. Chouteau County formed the first of many county libraries at Fort Benton, followed closely by Phillips County (at Malta), both in 1916. A State Library Extension Commission was created in 1929 and has done outstanding rural coverage since then.

Special libraries, such as the State Law Library, the excellent collections of the various units of the University of Montana, and the library of the Historical Society of Montana, are noteworthy.

Outstanding private rare book and manuscript collections of Montanans, in recent years which have been the envy of world bibliophiles and collectors have included those owned by Alexander Leggett of Butte, Dudley White of Columbus, William Beitsche of Great Falls, O'Neill Jones of Bigfork, and many others.

Of the large number of writers, two Montanans, both with rare ability and sensitivity — Frank Bird Linderman (1868--1938) and James Willard Schultz (1859-1947) — persistently endeavored to present in their many books a true picture of the natural, pre-white man Indians. Both had intimate experience with Indians. Schultz came to Montana in 1877 to hunt buffalo, married a Blackfoot woman and for many years lived among his wife's people. Linderman came early in the 1880's and as trapper and hunter's guide acquired knowledge of Flathead and Blackfoot ways and life which was later deepened by initiation into Cree and Chippewa tribes.

Schultz remains Montana's most prolific writer, authoring nearly 40 books during his long life. The most important are *MY LIFE AS AN INDIAN*, which George Bird Grinnell pronounced to be a "Study of human nature in the red . . . an intimate revelation of the domestic life of Indians . . . never before . . . written," and *FRIENDS OF MY LIFE AS AN INDIAN*. Among his many other books, most noteworthy are *WITH THE INDIAN IN THE ROCKIES*, *THE SUN GOD'S CHILDREN*, and *BIRD WOMAN*.

Linderman's *INDIAN WHY STORIES* (1915), *OLD MAN COYOTE* (1931) and several other able books recorded authentic Indian legends, told with imagination. They probably reveal as much understanding of the Indian's humor and spiritual insight as can be written by a man of another race. In *AMERICAN THE LIFE STORY OF A GREAT INDIAN, PLENTY COUPS, CHIEF OF THE CROWS* (1930), and *RED MOTHER* (1932), he provided some of the best pictures of Plains Indian life before the disappearance of the buffalo, as exist in literature.

Darcy McNickle, himself with a touch of Indian blood, wrote a good novel, *THE SURROUNDED*, rooted in his early life on the Flathead Reservation. In 1949 McNickle wrote *THEY CAME HERE FIRST*, a penetratingly enlightening history of the Indians of the United States, based upon sound scholarship and personal knowledge. In the past decade Dorothy Marie Johnson has succeeded, as many writers have not, in writing for popular magazines, western stories of authentic ring. A collection of them, *INDIAN COUNTRY*, has been followed by *THE HANGING TREE* and several others.

Trustworthy Montana books about the open range are E. S. Osgood's *THE DAY OF THE CATTLEMEN*, E. E. Dale's *THE RANCH CATTLE INDUSTRY*, Robert H. Fletcher's *FREE GRASS TO FENCES*, and Michael Kennedy's *COWBOYS AND CATTLEMEN* (1964).

John R. Barrows, Charlie Russell and E. C. (Teddy Blue) Abbott have all written excellent accounts about cow-punching. *UBET* (1934) is a subtle, witty and modest account by Barrows, thoroughly reliable and with literary savor. *WE POINTED THEM NORTH* (1939) is Teddy Blue's incomparable rendition of cowboy experiences which has become a much-reprinted classic. C. M. Russell's writing was as rich as his art and in the past three decades he has been accepted as a master teller of anecdotes in his *TRAILS PLOWED UNDER*, *MORE RAWHIDES*, and *GOOD MEDICINE*, a collection of 58 of his illustrated letters to friends. Better even than most of his paintings, these show the uncommon genius he was.

Granville's Stuart's *FORTY YEARS ON THE FRONTIER*, skillfully edited by Paul C. Phillips, is a classic reference book of the Old West.

William Broderick (Will) James, the author and illustrator of about 20 books, an authentic Montana cowboy, came onto the scene later than the other writers of the open range. Horses were his specialty both in writing and in the excellent pen sketches with which he illustrated his stories. *SMOKY* is his best known work.

Montana has developed other top writers of the novel known as a "western," with emphasis on action. The state has been a fertile locale for such work. Some of the best among the Montana writers of the "western" have been B. M. Bower, Walt Coburn, Norman Fox, Archie Joscelyn, Lee Floren, Robert McCaig, Eric Thane and Dan Cushman.

The Archie Bray Foundation in Helena is a ceramics and pottery studio of international reputation. The Foundation was established in 1951 as a place to work for those seriously interested in the ceramic arts. The large and completely equipped studio building — the only one of its kind in the northwest — is located three miles west of Helena. Among the internationally known potters who have been resident potters, guest instructors, or who have worked at the Foundation for a time are Peter Voukos, the first manager, Rudy Autio, Carleton Ball, Gene Bunker, Ken Ferguson, Hamada, Bernard Leach, James and Nan McKinnell, Anthony Prieto, Paul Soldner, Robert Sperry, Toshiko Takeazu of Japan, and Marguerite Wildenhain of England. The current resident potter is David Shaner, formerly on the staff of the University of Illinois. Among current outstanding Montana potters are Maxine Blackmer, Bernice Boone, Joyce Mackay, Peter Meloy, Jay Rummel, Frances Senska, Kay Smith, Branson Stevenson, Gary Sullivan and John Takehara. Stoneware is the characteristic ware produced in Montana; the form has varied from conservative to extreme.



The Montana Institute of the Arts or "The MIA," as it is commonly called, founded in 1948, is one of the nation's most active statewide grassroots organizations promoting the artistic and cultural development of her people. Its purpose is "... to preserve the heritage of the state as found in its history and folklore, to stimulate creative work in the several arts, and to make these cultural resources available for the benefit and enjoyment of the people of Montana." It has a peak membership of 1500 people in branches located in most of the major cities and counties. Its interest groups work actively in all phases of the arts — crafts, painting, sculpture, history, weaving, writing, music and photography. In 1959, MIA began assembling a permanent collection of contemporary Montana art through yearly acquisitions of the work of selected artists, now on display in the State Historical Museum in Helena. Some of the larger cities also have active art groups, in addition to MIA, such as the Billings Art Association, Studio 10 in Great Falls, Hilltop Gallery in Butte, as well as several excellent Weaver's Guilds for which the state has long been noted.

Among outstanding new facilities is the Yellowstone Art Center in downtown Billings. Through the efforts of the Billings Art Association, the MIA, the mayor and the city council, the city jail was remodeled in 1964-65, with a design by Robert Fehlberg, for the display of temporary and permanent collections. Having a full-time director and curator, Terry Melton, to organize exhibitions and a loan service, it has promoted a lively new up-sweep in the presentation of the arts in Eastern Montana and Northern Wyoming. Although the organization is new, the prospects for the future look bright with an unusual cooperative effort to promote what has already become a regional art center of real merit.

Circulating exhibitions, many of national and international renown, have been exhibited extensively since 1953 at the State Historical Museum in Helena, and the C. M. Russell Gallery in Great Falls. These, plus the new Yellowstone Art Center in Billings, constitute the only bona fide art museums in the state. The Historical Society particularly is working toward a permanent collection offering a broad representation of paintings, sculpture, prints, and the minor arts from various periods of art history. The State Historical Museum, in addition to its fine C. M. Russell collection, E. S. Paxson, William Standing and other "westerns" has one of the nation's largest collections of abstract expressionism — the New York School — in its Pindexter Collection. The Historical Museum at the University of Montana has some important items in the Dana Collection, paintings by William M. Chase, and Alfred Maurer, and a bronze figure by Mahonri Young, but most of the important museum art is centered at Helena.

There are a number of exceptional arts and crafts shops which sell only the work of Montana artists and craftsmen. At Appar in Glacier Park, Mr. and Mrs. Hans Jungster operate Montana House. Reeder's Alley in Helena is a cooperative enterprise consisting of a number of small shops, exhibits and galleries, located at the end of Last Chance Gulch. Harold Ruth established the Brown Barn on the east side of Billings in 1964. Jean Allen's bone and button shop — using animal horns of all species — is a novel enterprise at Helena, whose products are known throughout the United States. Flathead Lake Gallery in Bigfork, which opened this year, is outstanding in the region. One artist who has done the most work in ceramic sculpture and murals in collaboration with architecture is Rudy Autio, Associate Professor of Art, University of Montana. The following is a list of places where his work may be seen:

- |             |  |
|-------------|--|
| ANACONDA    | — Plaques of Four Evangelists, Anaconda Central High               |
|             | — Carved Relief, First Lutheran Church                             |
| BOZEMAN     | — Ceramic Reliefs for Montana State University Library             |
| CHINOOK     | — Stations of the Cross and Corpus of Christ, St. Gabriel's Church |
| CUT BANK    | — Glazed Relief, Glacier County Library                            |
| GREAT FALLS | — Tile Mural, C. M. Russell Gallery                                |
|             | — Carved Relief, First Methodist Church                            |
| HELENA      | — Ceramic Mural, Union Bank  |
|             | — Lewis and Clark Diorama, State Historical Museum                 |
| MISSOULA    | — Plaque for Liberal Arts Building, University                     |
|             | — Ceramic Figures, East Facade, St. Anthony's Church               |

Other exceptional church art may be seen at St. Anthony's in Missoula which has Stations of the Cross, mosaic murals, and cast figures on the East Facade by Walter Hook, and baptistry gates executed by Harold Balaz. In the Luther Immanuel Church, also at Missoula, is an exceptional ceramic mural by Maxine Blackmer. In the chapel at the College of Great Falls are a wooden crucifix and stations of the cross, carved by the late Sister Trinitas.

Other prominent artists, who are not connected with the large groupings at the several higher educational institutions, are Lyndon Pomeroy, Billings sculptor, and Helen McAuslan, McLeod and Bozeman, painter and printmaker. In the able tradition of Russell, Paxson and Seitzer, a host of artists dealing with western subject matter, sell their work consistently. Some of these people are J. K. Ralston and LeRoy Greene, Billings; Ace Powell, Kalispell; Elizabeth Lochrie, Butte, and Leo Beaufaurier and Les Peters, Great Falls. One of the best known traditional sculptors of animals is the veteran half-blood Blackfeet John Clarke at East Glacier, other sculptors are Alex LaFountain of Lewistown, and Robert Scriver of Browning, Lyndon Pomeroy and Rudy Autio.

Traditionally, music and drama have been given greater support in the schools and throughout the state than has art. Beyond the public schools most musical performances today are related to the college departments. Yet civic symphonies have been successful in Billings, Bozeman, Great Falls, Helena and Missoula. Professional performers do not tour as often in Montana as they did in the halcyon days of the gold boom.

Theater productions, except for college seasons, is relegated to the summer theater groups in Bigfork, Bozeman, Great Falls, Helena, Miles City, Virginia City, and Whitefish. The schedules coincide with the peak of the tourist traffic. Some of the performances are musical productions, but most productions are contemporary Broadway hits. The Virginia City Players, under the direction of Larry Barsness, for almost two decades have offered a fare of nineteenth century drama, melodrama and cabaret performances, which have brought them wide acclaim.

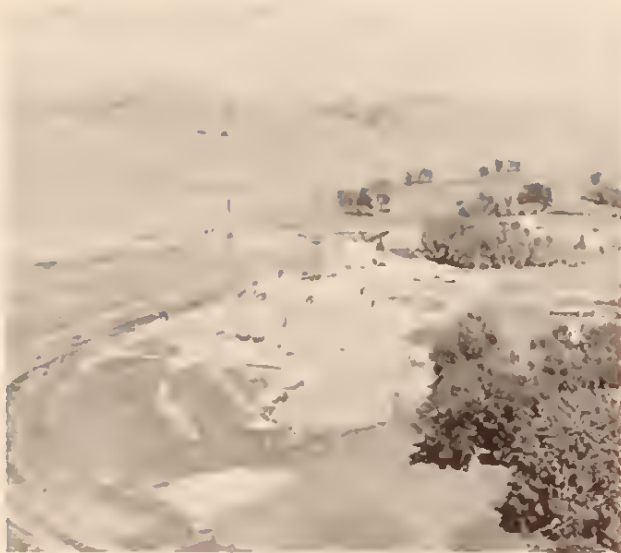
The Fine Arts are far better developed than one would expect for this region. With a relatively short history and no cities of even 100,000 in population, progress as well as cultural depth in Montana is quite remarkable. There have been no major philanthropic ventures in the arts other than the Rockefeller Foundation support for several years of the University Writers' Conference. Yet communication media have always extended support and the people have accepted a heritage of art which is refreshingly wholesome and deep for a state so far removed physically from the main stream of America's great cultural centers.



MUSEUM OF THE PLAINS INDIANS AT BROWNING, NEAR THE EAST ENTRANCE TO GLACIER NATIONAL PARK, PRESENTS THE LORE AND CUSTOMS OF THE INDIANS IN A SERIES OF EXPERTLY CREATED DIORAMAS



MISSOULA CIVIC SYMPHONY AND CHORALE IN THE PERFORMANCE OF BRAHM'S REQUIEM



AIR VIEW OF ROCKY MOUNTAIN PHOSPHATES PLANT AT GARRISON, MONTANA ON THE HELENA-BUTTE JUNCTION

# ROCKY MOUNTAIN PHOSPHATES -- INC. --

GARRISON, MONTANA

WORKING WITH MONTANANS FOR A GREATER  
MONTANA BY BUILDING PAYROLLS AND QUALITY  
PHOSPHATE PRODUCTS



## INDUSTRIAL FINANCING IN MONTANA

By Robert F. Wallace, Chairman  
Department of Economics -- University of Montana

When an economic region is found to have all of the manpower, natural resources and markets necessary for establishment of a new business, another all important problem arises. Where is the money coming from? What about financing? In this respect Montana appears to compare favorably with other areas offering similar resources and opportunities. Montana business is, of course, for the most part small business in the usual meaning of that term. Except for a few companies in such industries as oil, mining, transportation, insurance and retailing which conduct a part of their operations in the state, giant business is not typical of Montana. When we consider the financing available in the state we need not take giant firms into account, in any case. Such enterprises are not financed in any one state or region but draw their funds from all over the nation and the world through a vast financial network centered mainly in New York. Hence our concern is with somewhat smaller firms.

Until rather recently, although the adequacy of financing available to small business was recognized to be important, relatively little was known about it. Scholars and government officials had not found the subject as fascinating as in the case of big business, and the chief quantitative information related to the operations of commercial banks. During the 1950's increasing Congressional interest in the problem resulted in investigation by the Federal Reserve System and to passage of the Small Business Investment Act of 1958.<sup>1</sup>

1 Financing Small Business, Report to Committees on Banking and Currency and the Select Committee on Small Business, United States Congress, by the Federal Reserve System, April 11, 1958.

Fortunately a study by Professor Raymond H. McAvoy of Montana State University in 1955 provides some specific information on the Montana situation. The Federal Reserve study was concerned with the national picture and made no effort to determine regional variations. However, except as suggested by the McAvoy study or other evidence, there is perhaps no reason to believe that Montana conditions are markedly different from elsewhere. Financing Small Business, The Federal Reserve report, seemed to indicate that small business was well supplied with short-term credit. The main weakness appeared in the fields of intermediate-term and long-term credit which the Small Business Investment Act of 1958 was designed to remedy. Let us look at the picture.

### SHORT-TERM CREDIT

By far the largest source of short-term credit for all American business is trade credit extended directly from business sellers to business buyers. This fact, brought out by the Federal Reserve Report, is supported by a recent study by Martin H. Seiden for the National Bureau of Economic Research. Seiden's research showed that in 1963 trade credit amounted to more than twice the amount of credit extended to business by banks. Trade credit accounted for \$111.5 billion compared with \$48.7 billion in business loans of commercial banks. By the nature of the data we have no indications of any regional variation in Montana.

Second to trade credit in providing short-term credit is the commercial bank.

2 Raymond H. McAvoy, The Bank Financing of Montana Business, Regional Study No. 7 Bureau of Economic and Business Research, Montana State University Missoula, Montana, February, 1957.

3 Martin H. Seiden, The Quality of Trade Credit, Occasional Paper 87, National Bureau of Economic Research, New York, 1964.

4 Ibid p. 10.

Montana is well supplied with commercial banks capable of providing all of the services normally supplied by these institutions. We may infer from Professor McAvoy's study that Montana's banks are performing in full measure their function of financing Montana's small business firms. Three-fifths of the dollar volume of all loans of Montana member banks were made to proprietorships and partnerships. This compares with a national figure of only 30 percent of bank loans to unincorporated businesses. These facts emphasize the role which Montana banks are playing in the financing of small business firms.

Professor McAvoy's study revealed another aspect of Montana bank operations which emphasizes the small size of the businesses which these banks are accustomed to serving. This was the nature of the firms served. The relatively small size of the firms borrowing from Montana banks was shown by the fact that over 68 percent of the dollar volume of loans was accounted for by firms involved in trade, construction or services. This compares with a national figure of only 30 percent for these same industries. This would seem to indicate that Montana banks are indeed devoting themselves to the service of the small business firms comprising the bulk of the state's economic activity.

### INTERMEDIATE-TERM CREDIT

According to Financing Small Business, intermediate-term credit has often been a problem for small business firms. The Report indicated that on a national basis intermediate-term bank loans of \$250,000 or less were likely to require more security and perhaps to pay higher rates of interest than larger loans. It was partly to meet this deficiency that the Small Business Investment Act of 1958 was passed. In a section of this chapter which follows we see the generous arrangements which have been made for the provision of long-term and even equity capital for amounts up to \$350,000. We also find that loans made to a number of small firms which have formed a pool corporation for the purpose of obtaining capital for a larger scale operation may be for much larger amounts. It is even possible now under SBA to obtain equity capital where state development corporations are established to obtain federal funds and to pass these on to private enterprises.

### LONG-TERM CREDIT

Small businesses have typically obtained their long-term financing from life insurance companies in the past. Montana, like other states of the nation, has also provided an outlet for long-term capital through real estate loans. As shown in a later section of this chapter, Montana's own savings and loan associations have also provided a large volume of long-term capital essential for a prosperous business community by financing the homes of the state's citizens. The large areas of new residential construction found in all cities of Montana are in large part owing to the operations of the state's savings and loan associations and its banks.

In addition to the long-term capital provided by insurance companies, savings and loan associations and commercial banks, it is obvious that the SBA also represents an important part of the long-term picture. The various types of SBA loan and equity capital provisions described below combine with private and local sources of capital to provide the prospect of adequate financing for business firms that may otherwise find conditions favorable for locating in Montana.

Following is a statement showing the total Resources and Liabilities as of June 30, 1965.

#### RESOURCES

Cash and Banks	\$ 152,777,913.95
U. S. Government Bonds	228,784,836.76
State and Municipal Bonds	97,341,582.83
Other Bonds and Securities	20,713,421.48
Corporate Stocks	1,650,236.53
Loans and Discounts	609,862,301.98
Premises, Furn. and Fix.	18,350,516.55
Other Real Estate	339,536.87
Other Assets	7,234,985.61
<b>TOTAL RESOURCES</b>	<b>\$ 1,137,055,332.56</b>

#### LIABILITIES

Demand Deposits	\$ 420,049,227.13
Time Deposits	448,561,388.17
U. S. Gov't Deposits	18,474,012.17
Other Public Deposits	99,255,534.02
Due to Banks	28,168,669.59
Other Deposits	9,060,577.15
Borrowed Funds	7,880,000.00
Other Liabilities	22,692,370.22
Capital	31,422,500.00
Surplus	32,297,500.00
Undivided Profits	18,645,743.95
Reserves	547,815.16
<b>TOTAL LIABILITIES</b>	<b>\$ 1,137,055,332.56</b>

Eighty-one of the banks operate under state charter, 48 are under national charter. Forty-four of the state banks are members of the Federal Reserve System.



## COMMERCIAL AND INDUSTRIAL LOANS FEDERAL GOVERNMENT

By Rex B. Zachery

Regional Director Small Business Administration  
Helena, Montana

Generally speaking, to be eligible for a Government loan certain fundamental requirements must be met. These are:

- a. Financing from private, commercial sources must not be available on reasonable terms.
- b. There must be reasonable assurance of repayment.
- c. The loan must be in the public interest.

### (1) SMALL BUSINESS ADMINISTRATION

The business loan program of the Small Business Administration is designed to assist small enterprises—manufacturers, wholesalers, retailers, service establishments, and other businesses—which are independently owned and operated and not dominant in their fields. SBA's business loans enable small business concerns to finance construction, conversion, or expansion, to purchase equipment, facilities, machinery, supplies or materials, and to acquire working capital.

SBA offers the following types of business loans to small firms:

**Bank Participation Loans.** Through its bank participation plan, SBA operates with private lending institutions in meeting the credit needs of small firms. Often a bank is willing to make a loan to a small firm if SBA participates in it, i.e., purchases (immediate participation) or guarantees a share of it. SBA may participate up to 90 percent of the amount of the loan. This participation may be immediate or on a guaranty basis as the bank may elect. The Agency cannot enter into an immediate participation, however, if a guaranty (deferred participation) is available.

In an immediate participation loan, the Agency purchases immediately from a bank, or sells to a bank, a certain percentage of a loan which has been approved by both it and the bank. The loan may be serviced either by the bank or by the Small Business Administration.

In the case of a loan in which the Agency agrees to participate on a guaranty basis, the participating financial institution makes and administers the entire loan, with the SBA agreeing to purchase from the bank, in case of default by the borrower, a fixed percentage of the then-outstanding balance.

### TERMS

SBA business loans generally are repayable in regular installments, usually monthly, including principal and interest. Interest is charged only on the actual amount borrowed, and for the actual time the money is outstanding. All or any part of the loan may be repaid without penalty before it is due.

The maximum maturity of an SBA business loan is 10 years, however, working capital loans generally are not made for longer than 5 years.

Maximum loan maturities and interest rates for SBA loans are established by Congressional limitations. The maximum term on regular SBA business loans is 10 years. A term less than permitted by statute may be applied to loans used for working capital and in some other instances. The maximum interest rate on regular SBA business loans is 5½ percent, with a minimum of 5 percent permitted only in the event a participating lender reduces its rate to 5 percent or less.

A private lender may set a higher interest rate than is permitted by SBA on its share of a participation loan, if the rate is legal and reasonable. It also may set a higher rate than SBA on its share of a guaranteed loan, the higher rate on the SBA share to apply until SBA may purchase its guaranteed portion. If a private institution sets a lower rate than SBA's statutory rate on its share, the interest rate on the SBA portion shall be the same as that of the lender. However, in no event may the SBA rate be less than that permitted by statute.

A lower SBA interest rate on business loans is permitted in certain "Redevelopment Areas" designed in accordance with the Area Redevelopment Act (P.L. 87-27), and in "Areas of Substantial Unemployment" designated by the Department of Labor.

**AMOUNT.** The maximum SBA share in a bank participation loan to any one borrower is \$350,000. Exceptions to the \$350,000 limitation are loans made to corporations formed by "pools" or groups of small business concerns (a) to obtain raw materials, equipment, inventory or supplies for use by members of the group, or (b) to obtain the benefits of research and development for the members of the group, or (c) to establish facilities for such purposes. The maximum pool loan is \$250,000 multiplied by the number of small firms which have formed and capitalized the pool corporation. (The interest rate on pool loans is 5 percent on the share which the SBA has provided.)

### DIRECT LOANS

Where a private lending institution will not make the full loan and will not participate, SBA may make a direct loan. Terms for direct loans, including repayment, maturity, interest, and amount, are the same as for bank participation terms. Similarly, applications for direct loans should be filed at the SBA's field offices.

### DISASTER LOANS

Three types of disaster loans are granted:

#### a. GENERAL DISASTER

This type of loan is made to individuals, business concerns (including proprietorships, partnerships, corporations, cooperatives, or other business enterprises), and nonprofit organizations such as churches and charitable institutions, to repair and rebuild homes and businesses, which have suffered physical damage from floods, tornadoes, hurricanes and similar catastrophes, and whose location has been declared a "disaster area" by the Administrator of the Small Business Administration for purpose of receiving financial assistance, provided they have suffered tangible business or nonbusiness property loss, whether real or personal, as a result of such catastrophe.

Loans will not be made to repair or replace damaged or destroyed summer or winter cottages, camps, lodges or other residential property occupied by the owner exclusively for recreation or relaxation. However, if the property is primarily rental property constituting an important source of income for the owner, a rehabilitation loan will be considered.

#### b. DROUGHT AND EXCESSIVE RAINFALL

Such loans are made to assist small business concerns which have suffered economic injury due to drought or excessive rainfall and whose location has been designated a "disaster area" by the President or the Secretary of Agriculture as a result of excessive rainfall or drought, provided they can show substantial economic injury resulting from such causes.

Farmers and stockmen are not eligible for disaster loans from SBA, but should apply instead to the Farmers' Home Administration.

#### c. DISPLACED BUSINESS LOANS

Disaster loans of this type may be made when a determination has been made by the SBA that a small business concern has suffered or will suffer substantial economic injury as a result of displacement by a Federally-aided urban renewal or highway construction program or by other construction conducted by or with funds provided, in part or whole, by the Federal Government.

### BANK PARTICIPATION DISASTER LOANS

The SBA may participate with private lending institutions in disaster loans on an immediate or guaranteed basis and to the same extent as in the business-loan program. The SBA share may not exceed 90 percent.

#### TERMS

All three types of disaster loans generally are to be repaid in equal monthly installments, including interest, usually beginning not later than 5 months after date of the note. The final maturity of a loan is based on the borrower's ability to repay, but by law may not exceed 20 years.

The interest rate on SBA loans made as a result of damage suffered from physical disaster or because of economic injury due to drought or excessive rainfall is 3 percent per annum. When a bank participates with SBA in a disaster loan for the purpose of home repair or construction, the interest rate on both the SBA and bank portion of the loan is limited to 3 percent per annum. However, on other than home loans, the bank may fix the rate on its portion within reasonable limits.

Although displaced business disaster loans may likewise be for 20 years, interest rates are established on a statutory formula based on the average annual interest rate on all interest-bearing obligations of the Treasury plus ¼ of 1 percent. Interest on these loans will usually be between 3 and 4 percent. A bank participating in this type of loan may likewise charge a higher rate of interest on its share provided the rate is reasonable.

### AMOUNT

There is no limit on the amount of an SBA disaster loan. However, for a general disaster, a loan cannot be for more than the actual tangible loss suffered as a result of the disaster, less any amount the disaster victim has recovered from insurance or obtained from any other source, such as the American Red Cross, for purposes of rehabilitation. For drought or excessive rainfall disaster, loans may be used to provide ordinary working capital, to replenish normal inventories, and to pay financial obligations (except bank loans) which the borrower would have been able to meet had it not been for the loss of revenue resulting from the disaster conditions in his area.

### Loans Under the Small Business Investment Act of 1958, as Amended

This Act provides for the lending of funds to development companies and small business investment companies.

#### a. DEVELOPMENT COMPANY LOANS

The SBA is authorized to make loans to assist small business under a program designed to stimulate the flow of private equity capital and long-term financing of the operations, growth, expansion and modernization of small business concerns.

Section 501 of the Act authorizes SBA to make loans to State Development companies. The proceeds of these loans are to be used only to provide equity capital or make long-term loans, or both, to small business concerns. A Section 501 loan may be made for a period of 20 years, with interest at 5 percent per annum. The total amount of loans may equal the total amount borrowed from all other sources.

Section 502 of the Act authorizes SBA to make loans for plant construction, conversion, or expansion, including the acquisition of land, to State and local development companies, either directly or in participation with banks or other lending institutions. The proceeds of such loans must be used solely to assist an identifiable small business concern. Loans of this type made to a development corporation are limited to \$350,000 for each small business concern assisted, the maturity may not exceed 25 years, with interest at 5½ percent per annum, provided, however, that where the interest on the share of the participating bank or other institution is less than 5½ percent then the rate on SBA share will be the same, but not less than 5 percent.

Where a Section 501 or 502 loan is made subsequent to April 4, 1961 to a State or local development company for the benefit of a small business concern which will use the plant in the establishment or operation of its business located in an area of substantial labor surplus, the interest rate on such a direct loan to the development company and on SBA's share of such a loan made in participation with another lending institution shall be 4 percent per annum.

#### b. SMALL BUSINESS INVESTMENT COMPANY LOANS

SBCs are licensed and regulated by SBA and, to some extent, are provided with financial assistance from SBA. Their negotiations and dealings with small business concerns must be in accordance with the Regulations but their credit decisions are their own, not the Government's.

SBCs are also authorized to provide consulting and advisory service to small concerns. Most SBCs provide financing and services to diversified small businesses, a few specialize in certain lines of business.

#### WHERE TO APPLY

All applications for SBA financial assistance should be made to:  
Small Business Administration, Corner Main and Sixth Avenue,  
Power Block, Helena, Montana 59601

TELEPHONE 442-9040 Extension 3301 or 3302

#### AREA REDEVELOPMENT ADMINISTRATION

The Area Redevelopment Act (P.L. 87-27) provides for loans and grants to business or public bodies in designated redevelopment areas. Such assistance is intended to stimulate new permanent employment, thereby alleviating unemployment and underemployment.

#### Commercial and Industrial Loans

Under Section 6 of the Act these may be for as long as 25 years. Current interest rate is 4 percent. Maximum participation by AREA is 65 percent of aggregate project cost. At least 5 percent of such cost is to be supplied by nongovernmental sources as equity capital and not less than 10 percent of such cost is to be supplied by the State, local political subdivision thereof or other area organization nongovernmental in character. Funds from Federal sources which comprise not less than 15 percent of the aggregate project cost must be subordinated to Federal financial assistance and are repayable only after such obligation has been retired. Assistance is provided only after evidence of nonavailability of funds elsewhere at reasonable terms. Funds for operating capital are prohibited and funds for machinery and equipment are provided only if there is a demonstrated need.

#### Public Facility Loans and Grants

Under Section 7 of the Act, public facility loans may be for as long as 40 years. Current interest rate is 3¾ percent. Public facility grants may be provided under Section 8. Such loans and grants are to provide needed public facilities upon which business expansion and resulting new permanent employment depend. Grants are limited to that portion of a project which cannot be supported by a loan.

The Act provides for occupational retraining and technical assistance as may be required to accomplish its basic aims.

#### WHERE TO APPLY

AREA Coordinator  
207 Medical Arts Building

Butte, Montana  
Telephone: 723-3322

## MONTANA'S SAVINGS AND LOAN ASSOCIATIONS

By Paul A. Johnson, President of First Federal Savings and Loan Association, Great Falls, Montana

Nineteen savings and loan associations play a very important role in Montana's financial structure. Since World War II, they have been among the fastest growing financial institutions in the state. The total assets of these nineteen associations increased from approximately 23 million dollars to over 247 million dollars between December 31, 1946 and June 30, 1964. An increase of 984 percent. During the same period, the number of savings members increased from 8,400 to over 95,000 and the number of borrowers increased from 4,700 to over 17,500.

Let's examine some of the basic principles and reasons for the growth of these associations. A savings and loan association is a place where a person can (1) save money, and (2) get a home on. It is a community financial institution which lends the savings entrusted to it to people who want to buy or build homes and who must have credit in order to do so. The loan which it makes are paid back in monthly installments. It is the only specialized home owner credit institution in the entire American financial system.

The savings and loan business in Montana is part of a great nationwide business which dates from 1831. In the nation today there are some 6,340 associations and they are known by the following names in various sections of the nation: cooperative bank, building and loan association, homestead association, savings and loan association and savings association. Regardless of name for more than 130 years their general pattern of operation has always been the same.

This type of institution has weathered thirteen major economic depressions, survived five wars, and been an important influence in both of its chief phases of activity in the widespread ownership of wealth by average citizens. Every man, woman or child with money in a savings and loan association, like every home-owning family which borrows from a savings and loan association, shares in the wealth of the nation.

### DEVELOPMENT AND GROWTH

During territorial days, leaders in the state realized that homes would have to be provided for the many people who were coming to the territory. Therefore, farsighted businessmen in Helena organized Montana's first savings and loan association on July 17, 1885, four years before Montana became a state. This association, Home Building and Loan Association of Helena, is still in operation today and is a well-managed institution that has well served the people of Helena for nearly 80 years. By 1892 there were five associations in the state and during the next thirty years, as the population of the state grew, the number of savings and loan associations increased. By 1918, there were eighteen active associations in the state with total assets of over 20 million dollars. The housing boom in the 1920's which followed the end of World War I greatly increased the growth of these associations. The number increased to 27 and their combined assets increased ten-fold to over \$21 million in 1929.

However, this trend was soon reversed and during the depression of the 1930s, on both the state and national level, associations were faced with mounting withdrawals of savings and delinquencies on loans. In Montana the number of associations declined from 27 to 19 as a result of liquidations or mergers and assets fell from \$21 million in 1929 to a low of \$11 million in 1936. However, none of the liquidations which occurred in the state resulted in financial loss to savings members. By 1940, assets were on the increase again and were approximately \$14 million. Since then, two new associations have been organized. First Federal Savings and Loan Association of Kalispell and the First Savings and Loan Association of Glasgow. Two associations have been merged with the Empire Savings and Loan Association of Livingston. Therefore, we now have nineteen associations operating in the state. Eighteen of them are strictly state associations and operate only within the state. One, the Prudential Federal Savings of Salt Lake City, Utah, operates a branch in Butte. Associations are located in Big Timber, Billings, Bozeman, Butte, Deer Lodge, Glendive, Great Falls, Havre, Helena, Livingston, Missoula and Sidney.

The basic principles of savings and loan associations are the promotion of thrift and home ownership. The contributions of Montana associations in these areas are evidenced by the fact that over 95,000 people have 225.8 million dollars in savings with these nineteen associations. This figure compares with \$403.9 million in time and savings deposits in the 128 banks in the state. Dividends paid to thrifty association savers during 1964 totaled more than \$8,500,000.00.

Assets of these associations have doubled on the average of approximately once every five years, as shown below:

1946	\$ 22,829,289.00
1951	45,835,727.00
1955	93,789,420.00
1960	165,998,315.00
1964	247,507,213.00

These associations are located in attractive offices in the financial districts of their respective cities. They are staffed by well-trained personnel who have made the savings and loan business their life work.

The growth of the savings and loan associations in the state is not as important as the contribution they have made to the economy of the state and to the welfare and betterment of their respective communities. Since the end of World War II, these associations have more than 50,000 home loans, for a total of over \$365 million. The 1960 census reported that there were 234,682 housing units in Montana. If we assume that housing units since then have increased to approximately 250,000, it follows that since the end of World War II, about one-fifth of the owners of housing units have obtained financing for the construction, purchase or remodeling from a savings and loan association. This is significant, considering that there are only 19 associations operating in the state as compared with 128 commercial banks.

In 1940, approximately 43.6 percent of the families in the United States owned their own homes. Since then, important strides have been made in home ownership and today approximately 63 percent of the dwellings are occupied by their owners.

Montana savings and loan associations have made a significant contribution to home ownership in Montana. These associations have accounted for more than 25 percent of the loans made to veterans and guaranteed by the Veterans Administration, which demonstrates that these institutions have been doing their part in helping deserving veterans to become home owners. These associations have also made many loans which are insured by the Federal Housing Administration. Such loans are insured against loss to the associations and enable borrowers to obtain maximum loans for long terms and low interest rates established by the FHA.

Whether chartered by the state or federal government, every savings and loan association in Montana, without exception, pays its full share of both state and federal taxes. There taxes include all customary real estate taxes on property owned, State of Montana corporation license taxes, personal property taxes, and federal corporation income taxes. Earnings created by the operations of the associations and paid to their savers are also taxed as personal income.

The promotion of and increase in home ownership in Montana through the activities of these associations has made Montana rank high in per capita home ownership among the states and as a consequence has generated a high volume of real estate taxes for cities, counties and the support of our schools.

An association does its two-fold work in the community under local management. Policy is determined by a board of directors composed of local business and professional men.

Associations are chartered by either the state or the federal government and are supervised by proper agencies of the government from which they obtained their charter. The public supervision involves an annual examination

of accounts, security behind loans, and compliance with the code or the charter governing the association for the public's protection.

Twelve of the nineteen associations operating in the state are chartered by the state of Montana and supervised by the Montana Superintendent of Banks. Seven Montana associations are chartered by the federal government. All federal associations and most state associations are required to be members of the Federal Home Loan Bank, which is one of the two notable bulwarks created by the Congress of the United States for the supervision and safety of savings and loan associations. The Federal Home Loan Banks are to the savings and loan business what the Federal Reserve Banks are to the commercial banks. Members of the Federal Home Loan Banks may borrow on both long and short terms as their needs may require.

The other notable bulwark is the Federal Savings and Loan Insurance Corporation, which is the savings and loan association's counterpart of the Federal Deposit Insurance Corporation for banks. The Federal Savings and Loan Insurance Corporation insures the safety of each member's account up to \$10,000.00. It celebrated its thirtieth anniversary on June 27, 1964, and in these thirty years no one has ever lost a penny in an association that was insured by this government agency.

Federal associations have to belong to the Home Loan Bank System and also must belong to the Federal Savings and Loan Insurance Corporation. State associations may belong if they meet the requirement for membership. The twelve larger associations operating in the state belong to both agencies and these twelve associations hold over 98 percent of the total savings and loan assets in the state.

### THE MONTANA SAVINGS AND LOAN LEAGUE

The savings and loan business has as its trade organization the Montana Savings and Loan League. As early as August 17, 1892, a league of Montana Building and Loan Associations was formed with John Stedman of Helena as president and S. D. Kemper of Butte as secretary. No record of its activities is available and the present Montana Savings and Loan League dates from January 17, 1920. The present League has functioned continually since it was organized. It holds annual meetings and special meetings as needed. Its functions are carried out through various committees, such as legislative, taxation, resolutions and public relations. In the matter of national legislation, the state league has always cooperated with and worked through the United States Savings and Loan League.

Through the work of the League's Public Relations Committee, textbooks concerning the savings and loan business have been donated and placed in the libraries of various branches of the state university system. Annual scholarship awards are granted to students of the school of Business Administration at the University of Montana in Missoula. The league has cooperated with the Forest Service in providing highway signs at strategic places, reminding motorists to help keep Montana green.

Savings and loan people believe that they serve their fellow citizens best by enabling them to help themselves. They are proud of their record in promoting thrift and home ownership, and look to the future of a greater Montana with confidence.

This, in brief, is the savings and loan story in Montana. There is much to be told about the activities of these associations, the effect they have on the lives of people, and about the business generated in communities where they exist. If you want more information, ask your neighbor. Chances are, he is a member of an association — or, drop in to see an association manager. He will be very glad you did and will explain to you how his association may be of service to you.





## ECONOMIC GEOGRAPHY: A FORECAST

By Dr. Paul B. Alexander

Department of Geography - University of Montana

The preceding pages have emphasized Montana's traditional dependence upon agriculture and the extractive industries. The open grass plains of Northern and Eastern Montana support extensive grain fields and provide grazing for large herds of beef cattle. Irrigated fields of forage crops and sugar beets are particularly important in the Piedmont Region of Central Montana and in the intermountain basins of Western Montana. Cattle grazing remains important throughout Montana.

The mineral fuels are generally recognized as Montana's principal source of non-farm income. Oil fields are located in the northern, southern, and eastern sectors of the state. Metallic mineral production is centered in the mountainous regions of western Montana. These timbered western ranges also support an important forest products industry.

Although Montana has a wealth of natural resources and a large potential for developing power, it has failed to mature industrially. Of the seven hundred thousand residents, only fifty percent live in urban centers. Montana's rate of population growth has been only 67 percent of the national average and far below most western states. The lack of local markets and the great distances to major population and industrial centers has restrained any large scale growth of manufacturing. The industries which have developed are primarily concerned with processing extractive resources or are based on agricultural raw materials.

In the past several decades the United States as a whole has passed through a stage of phenomenal industrial development. Although Montana has made substantial contributions to this development by supplying raw materials and agricultural products, its own industrial growth has not kept pace with most other regions of the nation. During this period when factories have been striving to fill the needs of a highly affluent society, Montana's relative lack of population and commercial growth has been viewed as being generally undesirable. Under the given economic environment Montana was simply not in a favorable geographic position to compete successfully with other areas.

However, economic conditions are never static and the signs of a new human revolution are clearly evident. As the saturation level in basic consumer goods is approached and as cybernation and automation become firmly entrenched, the American people and her industries are establishing new values and seeking new outlets. It is under these new economic conditions that Montana shall "manifest" herself. Her unspoiled beauty and immense recreational facilities shall be recognized as an invaluable resource.

As traditional industrial products and concepts become modified, the importance of highly skilled professional staff is greatly increasing. Surveys have clearly indicated that key men in the technical industries have a definite appreciation for natural environments and active outdoor sports (hunting, fishing, hiking, skiing, etc.). The possibilities of unconfined outdoor recreation and a wide variety of year-round family activities are rapidly becoming a chief criteria in the selection of highly skilled positions. Technical industries which must be responsive to human locational decisions are finding that being situated in a desirable location is their number one asset. A 1957 survey conducted in Colorado to determine the relative importance of location factors of manufacturing firms showed that the influence of the "Desirability of living conditions" was among the top considerations. Only market conditions and regional growth were judged more important. Such traditional considerations as raw materials, labor (availability and wages), fuels and power, transportation facilities, and taxation proved to be less important. 1

1 L. J. Crampton and Paul W. DeGood Jr. Industrial Location Survey  
Bureau of Business Research, University of Colorado, 1957, pp. 68-69

In the developing economic situation Montana's deficiency of local markets should present no real problem. The state is serviced by an efficient east-west transportation network and in technical industries where finished product values are exceedingly high, the shipping charges to large markets would represent only a small percentage of total costs.

As the nation's technical industries expand, areas such as Montana will be given top consideration in plant location. In many respects the classical location theories of Weber and von Thunen will work somewhat in reverse. Montana's lack of heavy industry and scarcity of population may well be a decisive advantage. It is doubly fortunate that the "clean" technical industries which Montana is most apt to attract are the industries that will do the least to detract from the beauty and recreational opportunities of Montana's landscape. The preserving of this landscape is essential if Montana is to adequately provide for its newest and most rapidly growing industry - tourism.

The same economic and social developments that have altered Montana's industrial expectations have also created the new business giant of tourism. The United States Department of Commerce considers tourism to be one of the nation's fastest evolving businesses. Although facts and figures on tourism are evasive, it seems that its current national value of approximately 30 billion dollars per annum places it on a par with the value of total United States agricultural production. The annual growth rate of the tourist business consistently exceeds 14 percent, well ahead of agriculture, forestry, manufacturing or retail trade.

In Montana, the acceleration in growth of the tourist industry has made it one of the most important contributors to the economy of the state. Today the importance of tourism closely matches the value of the mining, forest product, or oil industries. However, none of these industries are experiencing as rapid a rate of growth as is tourism and in the near future tourism will rate as the second most important industry of the state.

As the population of the United States continues to expand, it is becoming more highly concentrated in urban centers. These city dwellers (over one hundred and fifty million by 1970) are seeking outdoor recreational opportunities in rapidly accelerating numbers. Higher pay, longer vacations, earlier retirement, and vastly improved transportation systems have all helped to promote year-round tourism.

The potential tourist industry of Montana has scarcely been tapped. The industrial and civic leaders of Montana have recognized the importance of the environment to the people of Montana. Maintaining an unspoiled environment and abundant opportunities for outdoor recreation is essential to the economic growth and well being of Montana. A growing awareness of this fact by the people of Montana is leading to an increased interest in preserving the natural beauty of the state. Expanding recreational facilities, wildlife programs, community clean-up campaigns, and pollution control are all part of the desire to keep Montana a great place to live or visit.



AGRICULTURAL AND INDUSTRIAL DEVELOPMENTS



PLUS UP TO THE MINUTE EDUCATION AND RESEARCH FACILITIES



LIVE MONTANA STYLE WITH PLENTY OF ELBOW ROOM AND STILL PROGRESS WITH THE MODERN



## FISH & GAME IN MONTANA

By Bob Cooney

Montana might be called a hunter's paradise. It ranked as one of the top big game states for many years. In the mountainous areas hunters find elk, moose, bighorn sheep, mountain goat, mule and white-tailed deer, black and grizzly bear, and grouse.

The many long valleys provide bird hunters with pheasant, Hungarian partridge, turkey, ducks and geese.

Two-thirds of the eastern part of the state consists of plains and upland plateau. Sage grouse, sharp-tailed grouse, pheasants as well as deer and antelope abound in these areas.

There are over 16 million acres of state and national forests where hunting is permitted. Nine wilderness areas have been set aside and can be enjoyed only by packing or hiking in.

Unlimited numbers of general big game hunting licenses are available to non-resident sportsmen. This license permits the taking of two deer, elk, bear, birds and fishing as well as an opportunity to apply for special drawings on antelope, moose, goat and sheep.

Guides and outfitters are available at reasonable prices. Dude ranches often accommodate both hunters and fishermen. Lists of licensed guides are available from the Fish and Game Department in Helena.

Each year Montana wins many honors for its trophy big game animals, but for spectacular scenery and the thrill of seeing wildlife at its best few other states can compare to this hunting mecca.

Montana offers many of the most famous trout rivers and lakes in the United States. Starting at Yellowstone Park we find three blue ribbon streams tumbling out of mountains. These are Yellowstone, Gallatin and Madison. In June, the Madison is famous for its salmon fly hatch that moves up the river as conditions become right. These giant insects, churning the air like Ford tri-motors, hit the water with a splash that guarantees another meal for a helty brown or rainbow. The river is in excellent shape after recovering from the August 1959 earthquake.

The Yellowstone has had a reputation for its huge trout and float trips but the wading fisherman never feels neglected as he slips the net under a big brown or rainbow. Fish in the trophy category are not uncommon during the year-around season.

Other streams in southwestern Montana near the Madison are the Bighole, Beaverhead, Gallatin, Ruby and Jefferson, all of which are blue ribbon trout streams. All these streams are brown and rainbow waters with the upper reaches affording whitefish and cutthroat. These streams will meet the expectations of the most enthusiastic dry-fly fisherman or spinning fan.

Just east of Helena and 65 miles north of where the Missouri is born by the Jefferson, Gallatin and Madison rivers, the sparkling trout river is dammed at three different locations to form Holter, Hauser and Canyon Ferry reservoirs. These waters produce exceptional year-around fishing for trout and whitefish. Rainbows up to 15 pounds are taken. The Missouri from below Holter Dam to Great Falls is accessible by Highway 15 and almost the entire length can produce fantastic fishing to the person who likes to roam the roads looking for his sport.

The general area west of Helena to the Idaho line is a land of fascinating rivers and streams that will warm the heart of any fisherman. Some of the most outstanding are Clark's Fork of the Columbia River which has its start in Silver Bow, Powell and Granite counties. Many of its tributaries afford good brook and cutthroat fishing while rainbows and browns will be found downstream. The Little Blackfoot which flows through Powell county is an outstanding example of a fine brown trout stream.

As the Clark Fork passes Bonner near Missoula it is joined by the Big Blackfoot River which drains much of Powell, Lewis & Clark and Missoula counties with its headwaters in the famous Clearwater Lakes region. The Big Blackfoot has not been affected by large numbers of irrigation diversions and is one of the accessible trout streams in that Missoula area. An outstanding tributary to the Big Blackfoot is the Clearwater River which drains Salmon, Seeley, Inez, Clearwater and Placid Lakes. Rainbow, cutthroat and Dolly Varden afford the major species of this huge river system.

The Blackfoot is ideal for angling float trips for the more hardy anglers. The scenery and wildlife always adds greatly to the fisherman's vacation.

Flint and Rock Creeks are other tributaries that provide excellent fishing. Flint Creek, which is southeast of Missoula, is one of the finest trout streams in the west. It is mainly a rainbow and cutthroat stream while the ever-present brown and an occasional Dolly Varden are ready to strike your lure.

The upper Flathead River divides into three main tributaries — the North Fork, Middle Fork and the South Fork. It is exceptional cutthroat and Dolly Varden water. Over half of Glacier Park and the famous Bob Marshall Wilderness area is drained by the upper Flathead River. To those who wish to sacrifice the soft living of civilization for the rigors of the back trail will be rewarded by the joys of primitive fishing conditions. Dude ranches and guides are available in this area.

The Swan River, south of Glacier, drains into Flathead Lake from Swan Lake. Highway 31 parallels almost 60 miles of river and lake and comprises many miles of excellent cutthroat and rainbow trout fishing.

Near the Montana-Idaho border, is the Bitterroot River. This river gets its name from Montana's state flower which is found on the slopes of the magnificent chain of mountains which also bears its name. The Bitterroot drains practically all Ravalli county and provides rainbow and brown trout with whitelish angling being very popular during the winter months. The cutthroat provides excellent fishing in the Bitterroot's tributaries.

The Kootenai River area of the far northwest corner of Montana finds many fishing areas within an easy drive. The Fisher River, Tobacco River, Yaak River and many smaller tributaries all abound with cutthroat, eastern brook and rainbow trout. The main Kootenai River offers very good cutthroat, Dolly Varden or locally called bull trout, and whitefish angling.

The many other thousands of miles of water will be left for the individual's imagination and scouting ability to come and discover the river fishing empire that western Montana has to offer.

The primitive paddlefish is taken in the Yellowstone River near Glendive. Giant paddlefish up to 90 pounds have been hooked in the Missouri River above Fort Peck Reservoir.

From large accessible trout lakes to tiny jewels of water tucked back in alpine wilderness known only to the hiker or packer, Montana has much to offer to the lake fisherman. Each lake has its speciality in species of fish — brown, brook, rainbow, cutthroat, Dolly Varden, golden and lake trout, Kokanee salmon and grayling can be found in numbers and size to excite the imagination of even the most experienced angler.

A run-down of some of the best large accessible lakes is as follows: Georgetown Lake located near the famous mining city of Anaconda, is in the Flint Creek drainage. It provides both winter and summer fishing for cutthroat, rainbow and eastern brook of generous proportions. Large catches are taken both by trolling and fly fishing.

Breath-taking, glacier-fed Flathead Lake, south of Glacier National Park, combines scenic beauty with a variety of fishing unexcelled on the western slope of Montana's rocky mountains. The lake is one of the largest freshwater lakes in the west and provides year-around fishing for cutthroat, rainbow and Dolly Varden trout, combined with perch, whitefish and bass angling. Certain protected bays and side sloughs produce specimens of bass up to five and six pounds.

One of the highlights of Flathead Lake fishing is the special season set to snag Kokanee salmon. The salmon complete their four-year life cycle and congregate by the thousands on gravel-rimmed shores. Each year many tons of choice Kokanee salmon are harvested by this unique method of fishing.

Not far from Flathead Lake, Hungry Horse Reservoir provides excellent cutthroat and Dolly Varden fishing. Beauties ranging up to 20 pounds have been taken. Other lakes of northwestern Montana near Thompson Falls are Cabinet Gorge, Noxon Rapids Reservoir and Bull Lake. Lake Five near Columbia Falls and Frank Lake in Lincoln county near Libby produce trophy-sized rainbows.

Brown's Lake and Upsala Lake near Ovando in Powell county produce rainbows up to 15 pounds. A special machine operated by the Montana Fish and Game Department keeps Brown's Lake aerated and insures against winter fish kill from lack of oxygen.

Duck Lake, located on the Blackfoot Indian Reservation near Browning, continues to steal the national honors for fly fishing rainbow trout. A fee for a season permit is charged by the Blackfoot tribe. This small lake produces some of the best rainbows in the United States.

Quake Lake, a product of the 1959 Yellowstone earthquake which dammed up the Madison River is open to boat fishing and all reports show an excellent population of brown and rainbow trout. Other lakes, famous for large trout and within a short drive of Quake Lake, are Wade, Hebgen, Goose, Otter and Hidden Lakes.

Fifty miles down the Madison from Quake Lake is another man-made lake which should produce excellent fishing. Ennis Lake, or Meadow Lake as it is called locally, is an old standby for trout fishermen.

Ninepipe Reservoir and Kicking Horse Reservoir between Missoula and Polson produce large mouth bass fishing that rivals any found in the west.

Eureka Reservoir and Willow Creek Reservoir, near Choteau, in Teton county, are two bodies of water that have been poisoned out and rehabilitated. All reports say the rainbow have grown fast and should be one of the hot spots.

Three large reservoirs on the Missouri River provide excellent fishing, boating and camping near the historic capital city of Helena. You'll find the Gates of the Mountains area as intriguing as the Lewis and Clark Expedition found it. Holter, Hauser and Canyon Ferry stretch for almost 70 miles of excellent trout waters.

Those who like to find their fishing by hiking back to hidden mountain lakes might be interested in catching grayling in Heart Lake, just north of Lincoln, and Harper's Lake in the Blackfoot-Clearwater drainage near Ovando — or catching those rare fish with the fascinating dorsal fin in Lake Agness near Melrose, south of Butte.

Hikers looking for the unique angle for the unpredictable golden trout in Hidden and Golden Trout lakes north of Yellowstone Park near Bozeman, or Lower Sky Lake above Libby in the far northwest portion of the state.

Most of the larger lakes are accessible by motor vehicle and have resorts, camping and boating facilities.

The general fishing season opens in mid-May and offers a tourist license of \$3.00 for six days or \$10 per season.

Whether you prefer trolling for lake trout or fly fishing for fighting trout in an alpine lake, you'll find what you're looking for in Montana.

RIGHT:  
PAIR OF  
MOUNTAIN  
LIONS  
TAKEN IN  
NORTHWEST  
MONTANA



BIG  
GAME—

BIG  
FISH—

BIG  
FUN—

RIGHT:  
HUNDREDS  
OF RESORTS  
GIVE YOU  
YOUR CHOICE  
OF GAME  
AND ACCOM-  
MODATIONS  
IN THE  
TREASURE  
STATE





## MONTANA VACATIONLAND

By Glenn Chaffin

One of the most popular diversions of vacationers, the word "looking around" is a phrase familiar to those who travel from Helena, the capital of Montana, to the Republic of Lebanon. And it is a practice that can excite and soothe the troubled mind.

The splendor of a sunrise from a vantage point along the Going to the Sun Road in Glacier National Park has enthralled visitors from 15 states and foreign lands from Switzerland to Brazil. Discoveries of great works in the arts, in science and engineering have occurred during a moment of mute rapture as travelers watch a rainbow rise from the mist of Yellowstone Falls. Family groups thrill to the beauty of an antelope on Montana's plains, recording the action for posterity in their camera albums.

Vacationing children who have played "cowboys and Indians" in Los Angeles and St. Louis have only to visit a cattle ranch or a reservation in Montana to see more cowboys than they ever dreamed existed. They are welcome guests on seven Indian reservations where their youthful imaginations can sail sky high, as they look and listen during an enchanting tribal ceremonial dance, with their friendly hosts in colorful and authentic regalia of beads and buckskin. Legendary figures such as Sitting Bull and Chief Joseph spring alive from text books to become lasting memories of a vacation where a reenactment of a fragment of history can be seen.

Sight-seeing ranks high among a wide range of vacationing pleasures ever present for enjoyment by visitors to the Treasure State. And it is a rich and hardy land in which to while away hours of such a pastime. In it offers a challenge to action entertainment too, which should not be ignored.

There are rushing streams and crystal lakes to fish which are equally alluring for all water sports, horses to ride, native gold to pan from historic creeks that made men rich a century ago. There are woodland trails to hike, fragrant with pine and wildflower, camps to pitch by a waterfall.

There are ghost towns to explore, nearly a hundred of them scattered across the state, memory filled with gaiety and tragedy, relics of an era of insecurity and unrest before the steady settlers came and the cattle ranchers and the industrialists moved in to anchor the state to an expanding nation.

The charm of "just looking" for leisure enjoyment need not be a static activity. There is both mental and physical stimulus in watching a Montana rodeo, an Indian pow-wow, drifting in a canoe down the Missouri River, alert for submerged logs, or waiting for just the right moment to photograph a prairie sunset. Montana is a vacationing playground that invites lingering, since the state presents a multitude of things to see and do.

Because of Montana's vastness, 147,000 square miles, it requires quite a bit of wandering too. It's a long haul for even a veteran traveler from the shores of Flathead Lake to the stark grandeur of Makoshika State Park in the Badlands country east of Glendive. But between those widely separated areas in the Big Sky country lie miles and miles of magnificent scenery of mountain, valley and plain, Yellowstone National Park, the intriguing Lewis and Clark Caverns, a grasshopper glacier, a field of pink snow and the site of the Custer Massacre.

Between them also are friendly towns, peopled with hospitable Montanans to welcome the travelers, anxious to make their visit a pleasant one. Back country lanes can be a delightful variation from the highways and freeways for the visitor who enjoys "poking around" in the hills, looking for new and pretty pebbles to add to his rock collection. And the travel records show that Rock Hounds love Montana.

Annual vacation travel has become an accepted way of life for millions of persons from every country under the sun. It is not a new pastime, as Kipling reveals in this quaint quatrain, written more than half a century ago.

"For to admire an' for to see,  
For to be old this world so wide  
It never done no good to me,  
But I can't drop it if I tried."

But it's much easier than it used to be, as travel time once measured in months, weeks and days is now measured in hours. Montana became historically and romantically appealing to vacationers through the Louisiana Purchase, the Lewis and Clark Expedition, a well-exploited gold rush, Vigilante law enforcement and its "war of the Copper Kings." Many factors combined to expand an early-day casual interest into an ever-increasing flow of vacation travel that has become the state's third largest industry. More than three million visitors from out of state contribute \$115 million to our annual economy. Montanans vacationing within the borders of their own state add another \$38 million to Montana's piggy bank each year. This vacation fun in the Big Sky country has become big business.

Our state highway system has done much to provide easy and comfortable access to our historical monuments, scenic routes into Glacier and Yellowstone parks, and to a wide range of recreational playgrounds, resorts, lakes and winter ski runs.

In Montana, vacationers watched the calendar and the birds. No more Big game hunting draws thousands to the state each fall, just as even more thousands are joining and summer to enjoy our fabulous fishing and fine game preserve rangelands. And, as the leaves fall and the birds fly, the adventurous breed of winter sports lovers arrive in Montana to enjoy the sun and fresh powder snow at Montana's 21 ski resorts, which rank high among America's finest.

A brand new Montana winter adventure, snowmobiling from West Yellowstone into the white wonderland of Yellowstone Park to Old Faithful and other world famous scenic areas, has already aroused national interest. This is glad tidings to the public transportation companies, deluged with "destination, Montana," reservations, and to the infinite variety of caterers to the welfare of vacationing motorists. And snowmobile travel through the park wilderness offers the visitor a rare winter pleasure, to observe and photograph hundreds of wild animals, from coyotes to buffalo at close range.

Mammoth Montana! Ninety-four million acres of Big Sky country welcome you to a four-season vacationland.

## MONTANA — ONLY FOURTH IN SIZE — BUT FIRST IN SCENERY!

BELOW THE BEARTOOTH MOUNTAINS, LYING BETWEEN RED LODGE, MONTANA AND THE NORTHEAST ENTRANCE TO YELLOWSTONE NATIONAL PARK, PROVIDE SPECTACULAR VIEWS FOR TOURISTS WHO

ENTER THE PARK VIA U. S. 212, FAMED BEARTOOTH HIGH ROAD, APPROPRIATELY NAMED "TOP OF THE WORLD HIGHWAY"



## RAILROAD TRANSPORTATION

By John Willard

Director, Montana Railroad Association

### SEE AMERICA FIRST!

THE FOUR "GREAT DOMES" ON GREAT NORTHERN RAILWAY'S POPULAR EMPIRE BUILDER ARE ALIVE WITH EXCITEMENT AS THE COLORFUL ORANGE AND GREEN STREAMLINER SNAKES THROUGH THE MONTANA ROCKIES

IN THE IMMEDIATE FOREGROUND IS THE UNUSUAL FULL LENGTH DOME LOUNGE, SEATING 75 PASSENGERS ON THE "SUN DECK" LEVEL. ON THE CURVE AHEAD ARE THREE DOME COACHES THE EMPIRE BUILDER OFFERS MORE DOME SEATS (147) FOR BOTH COACH AND PULLMAN PASSENGERS THAN ANY OTHER STREAMLINER BETWEEN CHICAGO AND THE PACIFIC NORTHWEST

ELK MOUNTAIN, SEEN IN THE DISTANCE, IS TOPPED BY A FIRE LOOKOUT, COMMANDING A VIEW OF FORESTS IN GLACIER NATIONAL PARK. GREAT NORTHERN'S MAIN LINE SKIRTS THE SOUTHERN BOUNDARY OF THE PARK FOR 60 BREATHTAKING MILES

Bring the Family Along  
and See Some of  
America's Outstanding  
Scenery on Your  
Next Business Trip

Railroads furnish the heavy-duty transportation needs of Montana industry and commerce. They do this at prices, or rates, designed to move Montana's industrial and commercial products long distances to meet the competition of products moving only half to one-third the distance to the same market.

Such pricing and service demand the fullest cooperation between rail carriers and their customers, and over the years such common efforts have resulted in a steady and healthy growth of raw material and semi-processed product industries. For example, since World War II, the forest products industry in Montana has grown 240 per cent, the largest growth in any northwest timber state.

Agriculture, mining, forests and related industries provide the backbone for both the state's economy and railroad movements. Montana's transition to include more and more manufacturing plants has given railroads an opportunity to provide specialized equipment and service and to make rates to open new markets.

A fast-moving economy which has created demands for Montana products nationwide and even overseas has challenged the ingenuity and capabilities of both production and transportation. With a built-in efficiency which no other form of transportation possesses, the railroad industry is able to meet this challenge and is doing so daily. Such efforts include innovations such as air-side hopper cars for food and mineral products, king-size all-steel, cushioned-frame box cars for lumber, grain and merchandise, huge tank cars, piggyback services and temperature-controlled cars to move all types of perishables.

The state has more than 5,000 miles of railroad, all of which is undergoing constant improvement and additions to carry heavier loads at higher speeds. Heavier rail has been laid on main lines, highly automated maintenance equipment keeps the roadbed in top condition, centralized train control makes for greater safety and speed, new two-way radio and other communications facilitate contact between operating crews and dispatchers and keep close track of cars in transit.

RIGHT:  
RAILROADS  
SERVE  
MONTANA  
WELL—  
PICTURE SHOWS  
TRAINLOADS  
OF SUGAR  
BEETS ON THE  
WAY TO  
REFINERIES

Railways Serving the Treasure State Take Pride in Anticipating and Being Prepared to Handle the Needs of Industrial, Agricultural and Commercial Requirements of This New Industrial Frontier



Constantly improved power, coupled with road and track improvements, make possible schedules of as low as 55 hours from Chicago to the North Pacific coast. Other fast freight schedules from Montana are available to California, the Gulf Coast, Mississippi valley and, through connections, to Alaska on ships which carry loaded cars through to Alaskan destinations on the Alaska railroad.

Passenger service provides four daily trains from Chicago to the North Pacific Coast, serving principal Montana points and giving excellent service and accommodations. Fine passenger service also is available to California through Salt Lake City and to the lower Midwest and Gulf through Denver.

Aside from railroad service, the railroad industry also provides numerous aids to industries seeking to locate in the state. Full-time trained and capable industrial and agricultural development agents are stationed in Montana to assist anyone seeking new locations or aid with present industries.

Railroads maintain industrial sites and provide individual industrial locations at virtually all points they serve. Examples are the major industrial areas at Missoula, Billings and Glendive. These are designed especially to accommodate industry, and many firms have taken advantage of the facilities.

Research is an important part of railroad service to the state's economy. All railroads serving Montana have engaged in research to find new markets, new materials and better uses for products and raw resources.

Included in this railroad research are intensive studies of development possibilities and markets for forest products, mineral deposits and their commercial possibilities, sources of livestock feed and other projects. In Montana these specifically include expansion of phosphate production, location of silver and talc deposits, investigation of iron ore supplies, investigation and location of sand and gravel deposits for various construction uses.

One railroad uses a stream-sediment testing system to discover traces of mineral which then can be followed to source in the drainage. This has proven very successful. Other geochemical prospecting efforts also are in use, as are inventories and evaluation of known mineral bodies.

As industrial potentialities develop through railroad efforts, transportation service and rates are made available to reach markets for products which are feasible and economically practical. This is a continuing process to which the railroad serving Montana are committed.



ABOVE: NORTHERN PACIFIC DIESEL PULLS A LONG STRING OF FRUIT LADEN CARS ALONG THE MISSOULA RIVER, WEST OF MISSOULA, MONTANA.



LEFT: MONTANA RAILROADS MAINTAIN INDUSTRIAL SITES AND STAND READY TO ASSIST YOU WITH EXPERIENCED INDUSTRIAL SITE PERSONNEL IN FINDING THE RIGHT SPOT FOR YOUR NEW FACTORY OR DISTRIBUTION WAREHOUSE FACILITIES.

Research and Development are an Important Part of All Montana Railroad Service . . .



JOHNSON FLYING SERVICE—ONE OF JOHNSON'S MANY SERVICES, MAKING A DELIVERY INTO MONTANA'S BACK COUNTRY

A TWIN ENGINE AIRCRAFT TAKING OFF FROM THE PAVED 5,600 FOOT RUNWAY AT THE LEWISTOWN AIRPORT



SPRAY PLANE—AN EXAMPLE OF SPRAYING OPERATION—FORD TRI MOTOR LAYING DOWN SPRAY SWATH IN THE BITTERROOT MOUNTAINS APPROXIMATELY 280 SPRAY PLANES OPERATED DURING THE 1965 SEASON UTILIZING A WIDE VARIETY OF AIRCRAFT



## "BIG SKY" TRANSPORTATION

A title truly fitting to the aviation industry of Montana, but probably more accurately accented as Big "Sky Transportation". . . .

Montana, a leader for years in general aviation, moved into first place in the Nation for the highest per capita ownership of privately owned aircraft in August 1958. Later nosed out of this position when Alaska joined the Union, and again later on a greatly expanded ownership of aircraft in Nevada, Montana now holds third place nationally for all private aircraft owned on a per capita basis, but still retains first place in the ownership of private business use aircraft, and well it may as a spacious child of a far flung frontier territory of 100 years ago who today, as a leader in the air age, stands ready for industrial development with an abundance of Nature and it's natural resources, that creates a mecca for the air tourist and traveler, and a real growth potential for the aviation oriented industrial business firm.

The State is served by four airlines, including jet service, two of which are trunk carriers, and two local service carriers. The airlines, while principally concerned with passenger service traffic, also handle ever increasing amounts of air freight, air express and air mail Western Airlines, now using turbo prop equipment, serves Montana through a system extending from Alberta to the Twin Cities, Denver and California points with service scheduled at Great Falls, Billings, Helena, Butte and West Yellowstone

Northwest Airlines, as an International Carrier, serves the State from West to East, accommodating traffic bound for the extremes of the Nation, from the Pacific Northwest to the industrial Great Lakes centers, the New York area and winter resort areas of Florida

Montana enjoys more direct continental connections on Northwest Airlines than any other State on this large trunk carriers entire system at the service points of Missoula, Great Falls, Billings, Helena, Butte and Bozeman Now serves the area exclusively by turbo prop equipment, the airline plans to be full jet over its entire route structure by 1966.

Frontier, a local service carrier, using turbo prop equipment over many segments of its system, serves Denver, Salt Lake City, and south from the points of Wolf Point, Glasgow, Sidney, Havie, Glendive, Great Falls, Miles City, Lewistown and Billings. An energetic and rapidly expanding airline, this company is moving toward all turbo prop equipment in the near foreseeable future

West Coast Airlines, another local service carrier, funnels the Pacific Northwest into Montana through its points of Kalispell and Great Falls

Severson Airlines, a "Third Level" or scheduled air taxi service in Great Falls now serves the northern "Oil Country" of Conrad, Cut Bank and Shelby on a scheduled twice daily service in light aircraft

Montana's General Aviation Industry, so wide spread and so diversified, is so large that individual comment on the numerous operations are not possible in this writing

Capabilities of these operations extend from the most modest one man-one plane commercial agricultural operation to Montana's oldest flying organization, Johnson Flying Service, Inc., of Missoula, the home of the "USFS Smokejumpers," who advertises as "Flying more types of air services than any other company in the entire world," which includes Smokejumpers, cargo drop, para-rescue, fire retardant, thunderstorm control, aerial photography and so on down to the more ordinary items of student instruction and passenger charter

As an active and energetic segment of the national general aviation operators, Montana's seventy aviation business enterprises have had a big job and a large area to cover, though forced to build their businesses on a very modest population and economic area

New aircraft dealers in the trade centers of Billings and Great Falls have often in years gone by been a top contender for sales unit volume for their various manufacturers, exceeding in the delivery of new aircraft by other out of state operators by a margin of two or three-fold

This energetic sales concept, combined with a wide spread capability of the service shops, extends the "Aviation Know-how" to Montana's fastly growing and active "Business Man Pilot" force. The fleet of business aircraft, now numbering nearly 1700 are as a rule better maintained and "professionally" equipped to handle all types of flying conditions occasionally encountered in the higher mountains winter season. A very large percentage of the total business fleet is the modern light twins and the more sophisticated single engine types

Montana's pilots pool now totaling over 3200 are capable, experienced and diversified. The commercial "Air Taxi" men are predominantly instrument rated with numerous individuals holding airline transport pilot ratings.

You ask, "What makes this possible?" — "Why is Montana such a FLYING state?" First, let us remember the background. Numerous Montana operators are old timers. Some have been in the aviation business for over 30 years. They think of business, any business, and great distances in terms of hours. They have learned to develop business for themselves, and for the other fellow, through the use of the airplane

Airports, Montana communities of almost any size would not be 'caught' without their airport. Through an intensive State and federal airport program all larger cities have adequately paved and lighted airports. Those smaller communities not served by the scheduled air carrier and too small to create a business potential for a General Aviation Operator either, now have their airstrips, or air park, or are now on the drawing boards for this development

Navigation Aids, The Federal Aviation Agency maintains a network of 13 Onni Range stations, controlled by "Flight Service Stations" across Montana. Four airports are tower controlled, two of which have instrument landing systems. The Air Route Traffic Control Center in Great Falls ties the entire system together

Continuing Improvement. The industry association, Montana Aviation Trades, in conjunction with the State through the Montana Aeronautics Commission have for a number of years conducted intensified refresher type training programs for both Pilot Instructors and commercial mechanics employed by the industry in the State. These programs, monitored by the Federal Aviation Agency, have been a pace setter in the Nation and have increased proficiency of the Pilot Pool and quality of maintenance of the business fleet

And, lastly, the "Big Sky," the big, clean, beautiful, blue sky for which Montana is famous. The absence of coastal fog and the haze of industrial East make this great State a pilot's paradise, where the familiar voice on "Flight Service" radio is often heard, saying, "Ceiling unlimited, Visibility sixty miles," and the job, the "work" of flying is a pleasure and a joy. This is Montana, Flying Montana, the Land of the Big Sky

## STATE OF MONTANA

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## AERONAUTICS COMMISSION

HELENA, MONTANA

BABB—A PHONE CALL FROM THE 4,000-FOOT STABILIZED RUNWAY AND A TWENTY MINUTE WAIT WILL BRING YOU TRANSPORTATION TO THE FAMOUS MANY GLACIER HOTEL IN THE HEART OF GLACIER NATIONAL PARK







AN ALMOST COMMON SIGHT WHEN LANDING AT THE SCHAFER MEADOW STRIP—THE MAJESTIC MOOSE

YOU'LL ENJOY FLYING  
THE BIG SKY COUNTRY!



SCHAFER MEADOWS THE 3,300-FOOT RUNWAY LOCATED AT THE NORTHERN END OF THE BOB MARSHALL WILDERNESS AREA. THE AREA ACCESSIBLE ONLY BY AIR, PACK TRIP OR BY FOOT, IS A TRUE WILDERNESS AREA. ONE OF THE 9 AREAS TO BE FOUND IN MONTANA WHERE ONE CAN ENJOY THE NATURAL WONDERS OF OUR STATE

AERIAL VIEW OF WEST YELLOWSTONE—LOCATED AT THE ENTRANCE OF YELLOWSTONE NATIONAL PARK. WESTERN AIRLINES MAINTAINS TWO FLIGHTS FROM THE SOUTH AND ONE FROM THE NORTH DAILY DURING THE SPRING AND SUMMER MONTHS. RECORDS SHOW THAT WITH SCHEDULED AIR CARRIER PLUS GENERAL AVIATION MOVEMENTS, THIS AIRPORT FACILITY HAS BEEN USED BY OVER 20,000 PERSONS DURING THE 1965 SEASON (FROM DEDICATION DAY, JUNE 12, TILL SEPTEMBER 11)



**FLIGHT INSTRUCTORS RECEIVE REFRESHER COURSE**  
The Montana Aeronautics Commission in cooperation with the Montana Aviation Trades Association, sponsored the first Flight Instructor Course to be held in the United States in 1962. The second and third Montana courses were presented in 1963 and 1964. Each of the ten-day courses were presented to 20 qualified flight instructors and included

Meteorology, Air Traffic Control, Instruments, Flight Maneuvers and Psychology of Training. The objective of the courses was to impart the latest technical knowledge and to provide additional training on methods of instruction. (The photo shows a typical classroom day with two of the instructors from the FAA Academy in Oklahoma City presenting a flight maneuver demonstration)

WEST YELLOWSTONE — ADMINISTRATION BUILDING — PHOTO WAS TAKEN ON DEDICATION DAY — JUNE 12, 1965. TOTAL COST OF AIRPORT AND TERMINAL BUILDING \$1,283,982. RUNWAY LENGTH IS 8,400 FEET



## CONTRIBUTION OF HIGHWAYS TO THE ECONOMY OF MONTANA

Courtesy of State Highway Department

Montana, with its large area and widely-distributed population, requires an extensive public highway system to meet its transportation needs. To serve the 147,138 miles of area, population of 707,000 and 476,136 registered vehicles, the state has 74,479 miles of public highways. Included in this figure are 11,491 miles of state highways, 61,647 miles of rural roads and 1,611 miles of city streets. All main highways are paved and most of the secondary highways that carry substantial traffic have a paved surface. There are approximately 9,900 miles of paved highways, roads and streets in the state.

The National System of Interstate and Defense Highways throughout the nation, is scheduled for completion to modern freeway standards by not later than 1972. This system of highways connects the major cities, principal industrial centers and other developed areas throughout the nation. It will permit fast, safe and comfortable travel throughout the country without a stop light or other impediment to freedom of travel. The annual benefits and savings to the highway user upon completion of the system will pay for the entire cost of constructing the system in less than a five-year period. Experience has shown that the Interstate System highways reduce the fatal accident rate by two-thirds as compared with conventional highways.

The Interstate System in Montana will consist of 1,177 miles of new highways when completed. This system is coincident with U. S. Highways 10 and 91 across the state and U. S. Highway No. 87 south of Billings. The mileage of Interstate highways in Montana is exceeded in only six other states. It is evident, therefore, that Montana will receive a substantial share of the benefits that the Interstate System will confer upon the highway users of the nation. In addition to the increased economy, speed and safety of travel, these highways will provide a substantial impetus for commercial and industrial development throughout the state.

Traffic on highways, roads and streets in Montana amounts to about 3,760,000,000 vehicle-miles of travel per year. This amounts to about 9,000 miles per year for each registered motor vehicle or 5,300 miles per year for each person in the state. Approximately 69 percent of the travel takes place on state highways, 19 percent on rural roads and 12 percent on city streets. Travel on Primary System highways consists of 65 percent Montana-registered passenger cars, 20 percent out-of-state passenger cars and 15 percent trucks. Traffic on the Primary System doubles every 20 years, and it is expected to triple every 20 years on the Interstate System.

The importance of highway transportation to the residents of Montana is evidenced by the fact that Montana ranks among the top states in the number of licensed drivers per vehicle and also the number of vehicles per person. The proportion of licensed drivers per vehicle is 26 percent above the national average, and the proportion of vehicles per person is 35 percent above the national average.

It is estimated that 76,000 persons in Montana are employed in industries related to highway transportation. This is equal to about one-third of the total work force in the state. This is substantially higher than the national average for the reason that many businesses in Montana are oriented to serving highway traffic. For example, the out-of-state visitor spends about \$115,000,000 per year while visiting in and traveling through this state. It is estimated that \$1.00 spent in Montana by the out-of-state visitor amounts to \$3.00 when it changes hands several times before leaving the state or becoming dormant. On this basis, the overall contribution of the out-of-state visitor to the economy of the state amounts to about \$345,000,000 per year.

The money invested in highway construction also provides a substantial boost to the economy of the state. Contracts awarded for highway construction during 1964 reached an all-time peak of \$66,670,084 with 2,304 persons being directly employed in highway construction. As of December 31, 1964, construction under contract amounted to \$93,320,956. In addition to the persons employed directly in highway construction, an additional 2,200 persons are employed by the State Highway Commission for engineering, administration and maintenance of highways.

Records show that highway construction expenditures are divided on the basis of 25 percent to labor, 54 percent for materials and 21 percent for equipment and other items. Local labor and industry receives the greatest benefit from these expenditures.

Although highway transportation is coordinated with other forms of transportation in delivering persons and goods to their final destinations, much of the state is dependent solely on highway transportation. More than one-third of the state is located more than 25 miles from the nearest railroad operating on schedule. Also, more than one-third of the cities and towns in the state are exclusively dependent on the services provided by highway transportation.

Every person in the state benefits in some manner from the service which are provided by highway transportation. The farmer and rancher can move his farm produce and livestock to market with a maximum of speed and economy and a minimum of delay. He also has schoolbus service for his children and mail delivery to his place. The producer of raw materials, such as the logger and the miner, is also assured of speedy delivery of his product to the mill, factory, shipping point or other destination. The family can move to the suburban areas where good highway transportation assures ease of travel to place of employment, central business district, shopping center or schools. The consumer can expect to receive fresh milk, meat, fruits and vegetables from points hundreds of miles away which are delivered by speedy highway transportation.

The contribution of highways to the economy of the state, as measured in both direct and indirect benefits, is very great and is accepted as an everyday occurrence and often without realization that the average family spends less than one per cent of its budget in payment of taxes for support of highways.



ABOVE: NEW INTERSTATE HIGHWAY NEAR LIVINGSTON, MONTANA  
BELOW: "GOING-TO-THE-SUN" HIGHWAY IN GLACIER NATIONAL PARK





# Taxation in Montana

By William D. Diehl

## Montana Board of Equalization

Montana is considered to have a broad-based tax structure which over the years has proved to be a stable source of revenue. At the state level there are relatively few earmarked taxes, which makes for a more business-like handling of state fiscal affairs as compared with those states in which all revenue sources are designated for special purposes.

Except for inter-city public utilities, property is assessed locally by the county assessor. The law provides that the board of county commissioners sits as a county board of equalization from the third Monday in July to the second Monday in August to examine assessments and equalize the property in the county. Taxpayers who feel assessments are incorrect can then appear before the county commissioners and seek evaluation adjustments. If satisfaction is not obtained at this local level, Montana law provides that appeals can then be made to the State Board of Equalization and ultimately to the courts, if need be.

Among accepted criteria for judging a tax system are equity, economy, convenience and certainty. The ultimate criteria, however, must include a measure of the public services provided by the tax system. Montana's tax structure defined according to tax sources is as follows:

(1) Considering all revenue sources, approximately 60 percent of the state and local revenue comes from the property tax in Montana. With increased collections from other sources of revenue, the percentage has declined slightly during the last few years. It is from this property tax that our county, city and public schools are largely supported.

(2) Income tax, both business and personal, comprises about 11 percent of the revenue, of which around 3 percent arises from corporation taxes, and about 8 percent from personal income taxes.

(3) Motor fuel taxes comprise around 11 percent of revenue.

(4) Revenue derived from business and corporation license taxes makes up about 5 percent of tax revenue from all sources, and

(5) The remaining 13 percent of tax revenue arises from miscellaneous sources.

Of the elements of activity for which tax revenue is expended, education at all levels receives around 50 percent, state government operations and state obligations to health and welfare activity comprise 13 percent, expenditures on highways is 13 percent, and cities and counties expend the remaining 24 percent.

### PROPERTY TAX

The importance of the property tax in Montana's tax structure was recognized in the passage of the 1957 property reclassification and reappraisal act, and was a step forward in achieving the equity, economy, convenience and certainty of taxation. The reclassification and reappraisal program is virtually completed in Montana and a program for improvement and maintenance of the standards of property taxation is being pursued. Inasmuch as property taxes are administered jointly by local agencies and the State Board of Equalization, the area is one which calls for a high degree of cooperation and a thorough understanding of the basic principles involved in real property taxation as they relate to state and local agencies. The State Board appraises all inter-county property and the net proceeds of mines, relating the values so determined to the county officials for tax collections. Over-all supervision of property taxation is primarily a responsibility of the State Board, although most initial appraisals are made by county officials, and subject to review by county boards of equalization.

The recent creation, within the State Board of Equalization, of a department of program and research holds great promise for the effective and profitable understanding of the relation of all taxation to the economic climate of the state and for the coordination of the efforts of the several governmental agencies that are involved in problems related to taxation. The successful development of this department as an important and new element of the state taxing agency will fill a long recognized need.

A further step in the attempt to improve the mechanics of assessment and to provide better understanding of the assessment process is that which seeks the establishment of an annual school for classifiers, assessors and commissioners. Wide interest is developing in the county agencies throughout the state in this proposed school. Preparation for this school, to be held initially in the Spring of 1966, is going forward presently under the sponsorship

of the State Board of Equalization in cooperation with the Law School and the School of Business Administration of the University of Montana, at Missoula. The successful implementation of this schooling program should prove of significant value to the county officials, as well as the State Board of Equalization, in the administration of the laws pertaining to taxation.

Montana classifies property into nine classes for the purpose of taxation. Property is assigned a taxable valuation depending on the statutory class into which it falls, between seven and one hundred percent of its assessed value.

Montana law states that property shall be assessed at "full and true value," but, as in most states, a reduction factor (approximately 40 percent in Montana) is used to determine the assessed value. In reality then, the assessed value of property is approximately 60 percent of its full cash value or "ful and true value."

In determination of taxable value, percentages designated in the following classes are applied to the assessed value.

Class 1. Net proceeds of mines and the value of the right to enter upon the land for exploring and prospecting for minerals. To the assessed value in this class is applied 100 percent to get the taxable value.

Class 2. Household goods and furniture, agricultural machinery and implements, and vehicles of all kinds. Twenty percent is applied to the assessed value to arrive at taxable value in this class.

Class 3. Livestock and poultry, stocks of merchandise and commercial furniture and fixtures — taxable value is 33 and one-third percent of assessed value in this class.

Class 4. All lands and improvements, city and town lots and improvements, manufacturing and mining machinery, fixtures and supplies and trailers — the statutory percentage of assessed value to get taxable value is 30 percent in this class.

Class 5. Moneys and credits, except moneyed capital of banks, properties of rural electric cooperatives, and all unprocessed agricultural products on farms or in storage. In this class, 7 percent is applied to assessed valuation to get taxable valuation.

Class 6. Moneyed capital and shares of banks — the taxable value in this class is 30 percent of assessed value.

Class 7. All new industrial property including land, building, fixtures and machinery. Under a law enacted in 1961 all new industry has the privilege of being taxed at a rate of only 7 percent of the assessed value for a period of three years, instead of at the usual 30 percent rate. New industry as defined by this act shall mean any person, corporation, firm, partnership, association, or other group which establishes a new plant or plants in this state for the operation of a new industrial endeavor, as distinguished from a mere expansion, reorganization, or merger of an existing industry or industries.

Class 8. Any improvement on real property valued at not more than fifteen thousand dollars (\$15,000), which is owned and occupied by:

1. A widow 62 years of age or older, whether with or without minor or dependent children, or

2. A widower 65 years of age or older, whether with or without minor or dependent children, or

3. A widow with minor or dependent children regardless of age or,

4. A recipient of retirement benefits not exceeding \$150 per month, if single, or \$250 per month if married.

Provided such owner and occupier is not gainfully employed to such an extent as would render him or her ineligible for social security benefits, should he or she be otherwise eligible for such benefits, and does not have income from all sources, excluding retirement benefits as mentioned in (4) herein above, in excess of \$1,500.00 per year.

The taxable value in this class is 20 percent of the assessed value.

Class 9. Included in this class is all property not included in the eight preceding classes. The taxable value in this class is 40 percent of the assessed value.

Uniform state levies, plus various county mill levies are multiplied times the taxable value of all property to get the tax on property. The weighted average (for all counties in the state) mill levy was 143 mills in 1964.

The following sample illustrates the method of levying taxes on property in Montana:

The full and true value of a \$1,000,000 industrial plant would be reduced by 40 percent to reach an assessed value of \$400,000,

and this would be further reduced 7 percent of assessed value to reach a taxable value of \$28,000. The mill levy would then be imposed against the \$28,000 figure for tax purposes. Using the average county mill levy for 1964 of 143 mills would result in a tax of \$4,004. In final analysis the mill levy is applied to only 2.8 percent of the true value of the property in this case.

### PERSONAL INCOME TAX

The Montana personal income tax is graduated from 1 1/2 percent on the first \$1,000 up to 7.9 percent on taxable income which includes either the standard 10 percent deduction plus \$600 per dependent. Montana law allows deductions of the Federal tax liability from income. Income tax withholding is used on various occupational groups. In the personal income tax provision, business income declared as personal income may include an allowance for a net operating loss carry over. In addition there is a credit allowance for income taxes paid in other states by a resident of Montana.

Following is Montana's graduated income tax schedule:

TAXABLE VALUE	TAX RATE
First \$1,000	1 1/2 percent
Next 1,000	2 1/2 percent
Next 1,000	3 1/2 percent
Next 2,000	4 1/2 percent
Next 2,000	5 1/2 percent
Over 7,000	7 9/10 percent

### CORPORATION LICENSE TAX

Montana's corporation license tax is 5 1/4 percent of net income for the taxable period; the tax is measured by net income derived from all sources within the state during the annual reporting period which may be either the calendar or fiscal year. The tax is imposed on every domestic and foreign corporation engaged in business, with certain exempt organizations. The taxation may not be less than a specified minimum of \$10. Net corporation income means gross income less the allowable deductions. In computing net income the following items are deductible from gross income to the extent they relate to income from sources within Montana: includable in gross income, business expenses, losses, depreciation and obsolescence depletion (in the case of mines, natural deposits, oil and gas wells and timber depletion may be claimed), interest, property taxes, contributions to pension and profit sharing plans, intangible drilling costs, dividends, interest paid on deposits. The gross income is all income recognized as gross income in determining the Federal corporation income tax liability and in addition it includes interest income exempt from the Federal income tax. Montana corporation income tax laws permit qualified small business corporations to elect not to be subject to the tax imposed by larger corporations. This provision if elected by a small business in essence exempts corporation income from business taxation.

### LICENSE TAXES

#### FUELS

A tax of six cents per gallon on gasoline, nine cents per gallon on diesel fuel, and six cents per gallon on liquid petroleum gas is imposed. A tax of 2 percent of gross value of the first 450 barrels is taxed at a rate of 2 1/2 percent of the gross value.

#### METAL MINES

Taxation of production or gross value of metal mines is as follows: for the first \$100 thousand of gross value the tax of \$1 is imposed. On the next \$150 thousand gross value of production, a rate of 1 1/2 of 1 percent is imposed. On the next \$150 thousand gross value of production, a rate of 3/4 of 1 percent is imposed. On a gross value of production between \$400-\$500 thousand a tax rate of 1 percent is applied. On the gross value of all production over \$500 thousand a rate of 1 and 1/4 percent is applied.

#### FREIGHT LINE TAX

Each freight line company whose cars are habitually employed in the state of Montana are required to pay a tax of 5 percent of its gross earnings within the state.

## STORE LICENSE TAX

Montana's store license tax is graduated from \$6 to \$201, depending on the number and type of the stores owned by a single business firm. Any person, firm, corporation, association, co-partnership or group desiring to open, establish, operate or maintain a store in the State of Montana prior to September 1 of that calendar year should apply to the State Board of Equalization for a license to do so.

### Retail Stores (restricted)

Establishments such as gasoline filling stations or distributing plants, lumber yards, and grain elevators, where 75 percent of the gross business is dealing exclusively in a single product such as petroleum products, building material or grain and seeds, and those businesses in which the sale of goods, wares, and merchandise is less than 25 percent of the gross business, shall pay an annual license fee according to the following schedule:

- 1 Upon one store, the fee shall be \$6.00
- 2 Upon the second store, the fee shall be \$51.00
- 3 Upon the third store, the fee shall be \$101.00
- 4 Upon the fourth store, the fee shall be \$151.00
- 5 Upon the fifth store and each store in excess of five store the fee shall be \$201.00

### Retail Stores (general)

All merchandise stores excluding those listed above shall pay an annual license fee as follows:

- 1 Upon one store, the fee shall be \$6.00
- 2 Upon the second store, the fee shall be \$8.50
- 3 Upon the third store, the fee shall be \$16.00
- 4 Upon the fourth store, the fee shall be \$23.50
- 5 Upon the fifth store, the fee shall be \$31.00
- 6 Upon the sixth store, and each store in excess of six, the fee shall be \$38.50.

### Wholesale Store License

Wholesale stores are taxed in all cases as individual units at a rate of

\$38.50 per unit. In the event goods, wares and merchandise are sold regularly at both wholesale and retail from one establishment, the operator shall not only be licensed for wholesale business but also for retail business.

## PUBLIC CONTRACTORS LICENSE

Under the contractors license tax provision, three classes of licenses are identified. The class of license which is issued depends on the maximum dollar value of contracts undertaken by the contractor.

**Class A.** A contractor that holds a Class A license may contract for any sum. There is no limit to the dollar value of contracts in this class. The license fee for a Class A license is \$200.

**Class B.** A contractor whose contracts do not exceed \$50,000 qualifies for a Class B license. The license fee is \$100 in this class.

**Class C.** The holder of a Class C license may contract for a sum up to \$25,000. The license fee is \$10.

## UNEMPLOYMENT COMPENSATION

All firms with one or more employees are subject to Montana unemployment compensation laws. In fiscal 1964, employers in Montana paid an average rate of 1.5 percent on taxable payrolls for unemployment insurance. Actual tax rates ranged from 0.5 to 2.7 percent (the maximum rate) according to each employer's employment record under experience rating sections of the law. The 1.5 percent average tax yield rates will hold as long as the unemployment compensation fund remains above \$20 million, or until it is changed by legislative action.

## CONCLUSION

Substantial progress, in all areas, has been made in the improvement of taxation in Montana in recent years. The reclassification-reappraisal program has brought, and will continue to bring, appreciably greater equity and fairness to property assessments within counties and between counties. There is an increasing awareness of the importance of private as well as public investment in the State of Montana. Capital investment is closely related to job creation and economic growth and thus the growth of the tax base upon which revenues for providing government services depend. Such an awareness will lead to a more complete understanding of the problems as well as opportunities for business enterprise in Montana.



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Elkhorn Mining Company Office	- - - - -	Boulder 225-3383
Wade V. Lewis, President	- - - - -	Boulder 225-3384



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4. Free modern bus service to the mine from hotels in and around Boulder, Montana.
5. Trained personnel administer to the visitors' needs at all times while in the mine.
6. The Free Enterprise mine is located within a few minutes' drive from the City of Boulder, Montana, served by transcontinental bus lines and the Great Northern Railway.
7. Every Uranium Mine does not yield, replace and maintain daily a CONSTANT SUPPLY OF RADON GAS as does the FREE ENTERPRISE MINE. RADON GAS, not Uranium Ore, is the SOURCE of the EFFECTIVE RADIOACTIVE ELEMENTS!

ANY TIME OF THE YEAR is a good time to visit the Free Enterprise uranium-radon mine. It is open and accessible every day, including Sundays, and travelers may arrive with the assurance of comfortable accommodations the year round. On reasonable notice the company will assure you reservations of the type desired, and all employees will be glad to assist in making your stay in Montana pleasant, your reception a welcome, friendly one.

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ABOVE—GOVERNOR TIM BABCOCK WITH HOYT LARISON, PRESIDENT OF THE MONTANA MANUFACTURERS ASSOCIATION AT THE FIRST INDUSTRY WIDE SHOW IN MONTANA. THEY ARE DISPLAYING THE ALL MONTANA BRAND

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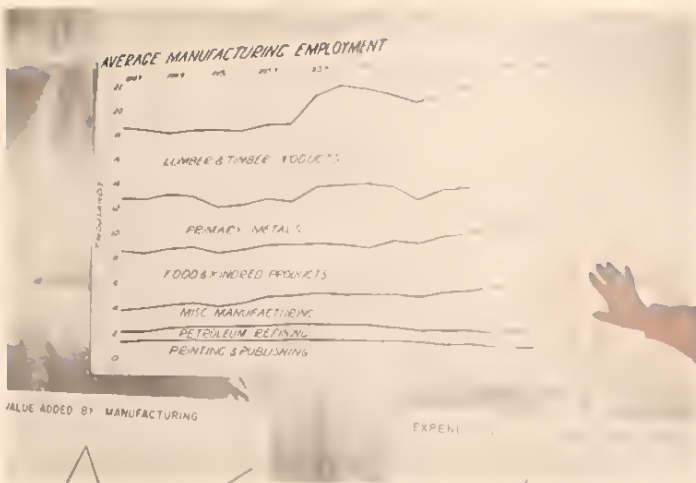
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- **GOLFING** Meadow Lark Country Club on Highway 91, west end Worden Bridge, Municipal Golf Course on River Drive at end of 35th St. North
- **COLLEGE OF GREAT FALLS** SE section of city. 104-acre campus dedicated in 1960. Inquire Administration Building for campus tours
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ness climate with state level tax incentives are important factors to consider.

But, heading the list of advantages is Great Falls, a fine place to raise a family. Here you live and play near your work — no commuting — except to a cool trout stream or a favorite mountain campsite, only minutes away. And here, only a few hours drive, are located two of the great National Parks: Glacier and Yellowstone.

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**PAGE MADE POSSIBLE BY THE MEMBER BANKS OF THE  
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**He's Got Him This Time—Roahen Photo—Courtesy of the Montana State Planning Board. Picture Taken at Falls Creek on the Dearborn River Near Great Falls, Montana**

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## SON OF MISSOULA PIONEER, PIONEERS PIONEER FLYING

By Robert B. Sands

Although the above caption uses one word repeatedly, the word and deed is synonymous with one of Montana's earliest and most successful flying services, The Johnson Flying Service of Missoula.

In 1860 Mr. Harvey Johnson and his wife Laura, came to the small western Montana village of Missoula from Canada. Recognizing the need for transportation in the growing community, Harvey entered the livery business and until the advent of the automobile was well known for having the finest horses and rigs in Missoula.

Two of their sons, Dick and Bob, inherited from their adventurous parents the ambition to do new and daring things on their own. After graduation Dick went to work for the State Highway as an engineer and Bob went into the garage business, having one of the first Texaco stations supplied by Mr. L. A. Dixon, Montana's pioneer Texaco distributor who has encouraged and supplied Johnson Flying Service with Texaco petroleum products continuously since 1924.

Bob's first exposure to flying came in 1923 when one of Missoula's early day aviators, Lon Brennan, gave him his first ride. Once bitten by the "Flying Bug" infection was immediate. Within a year's time Bob had graduated from Nick Mamer's Flying School in Spokane, returned to Missoula with his own plane, a new OX 15, and founded the Johnson Flying

Service. With the help of brother Dick, who quit his job to become a partner, and Bob's true pioneer spirit and determination, the Johnson Flying Service survived the first hard years and has steadily grown until today it is the largest, best equipped and staffed, privately owned flying service in the world. The highly specialized mechanics and craftsmen, some of whom, like his chief mechanic and vice president, Art Pritzl, have been with him since the beginning and have brought national recognition to the firm as having pioneered and developed more uses for the airplane than any privately owned organization of its kind.

Since 1926 Bob has worked with and for the U. S. Forest Service. Starting with part time fire patrol, the jobs have multiplied and expanded at an ever increasing rate. The delivery of food and equipment, rescue of trapped and injured firefighters, delivery and training of smokejumpers, the invention, fabrication and development of special equipment to bombard fires with chemical retardant, for spraying millions of acres of timber with pesticides, and the reseedling of burned over areas are some of the jobs that have been undertaken, developed and perfected. Each job requires special equipment, special planes and above all, special pilots. Pilots are trained at the special flying school at the Johnson Flying Service.

With over 40 planes and helicopters, a craft that the Johnson Flying Service has been instrumental in developing for high altitude flying, Bob and his pilots never turn down a request

for service. From delivering the sportsman to remote lakes and hunting areas, dropping feed to snowbound cattle, delivering equipment and supplies to miners, oilmen and lumbermen, to evacuation of the injured, the transplanting of fish and wild game and the annual big game count for various State Fish and Game Commissions, every call for help is answered.

It was on a similar job, the counting of elk in the rugged Teton Mountains of Wyoming in 1945, that brother Dick's plane crashed, ending a long and courageous career highlighted by many "firsts" and "impossible" flights. A career, along with Bob's and some of their special pilots, so spectacular that a book, "Tall Timber Pilots" was written in 1953, just to tell the high spots of their fabulous and incredible exploits. A book that must have a sequel because since its publication, the Johnson "Tall Timber Pilots" have continued to pioneer in every type of flying job imaginable. Supplying Montana and the nation a unique flying service that only true pioneer courage, love of adventure desire to try the new and succeed, and the uncompromising demand for the best in manpower, equipment and products with which to do the job, can provide.

As we enter a second century of progress in Montana, Bob Johnson and his flying service has proved that pioneers need not necessarily be the remembered, farsighted, courageous bearded oxen driver of a century ago, but can be the farsighted, courageous clean shaven aviators that will be remembered a century hence.



BOB JOHNSON AND FRIEND IN FRONT OF FORD TRI-MOTORS

MECHANIC FINISHES COMPLETE OVERHAUL ON R-2800 PRATT & WHITNEY ENGINE



SPRAY AND DUSTING UNITS DESIGNED AND FABRICATED FOR HELICOPTERS BY JOHNSON



66

MECHANICS GIVE TOP SERVICE IN THE WELL EQUIPPED SERVICE SHOP



PARTS AND QUALIFIED SERVICE FOR EVERY TYPE OF AIRCRAFT







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SAVINGS AND LOAN BUSINESS

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EXPERIENCED HOME LOAN SERVICE BY TRAINED PERSONNEL WORKING  
EXCLUSIVELY IN THESE TWO FIELDS

Drop in and  
Visit the Friendly  
Folks at Your  
Area's Savings  
and Loan  
Association

Thousands of Montana  
Homes are Financed  
by Tens of Thousands  
of Montonans by Their  
Savings of Millions of  
Dollars in the Savings  
and Loan Associations  
Shown on the Map

WHY NOT CONSULT  
HOME FINANCING  
SPECIALISTS?



WHERE You Save DOES  
Make A Difference





U. S. ARMY CORPS OF ENGINEERS MAP OF LIBBY PROJECT  
LEFT: LINCOLN COUNTY PUBLIC LIBRARY AT LIBBY



## WILSON'S LO-PRICE FOODS INC.

O. B. Wilson - G. K. Wilson - L. G. Wilson

**ONE STOP SHOPPING**  
**HEALTH and BEAUTY AIDS**  
Highway 2, East Edge of Town  
**LIBBY, MONTANA**

**Look to Us For the Freshest Meats and Produce in Town -- Quality -- Service**





## FOR THE PUBLIC

Our rapidly expanding population, with more leisure time, more purchasing power, more mobility, continues to seek more opportunities to enjoy the outdoors. The demand for outdoor recreation consequently has become greater each year. From 54 million-person visits in 1954, attendance at Corps of Engineers projects increased in 10 years to 143 million. The public's desire is a strong trend to the use of water areas, including lakes or reservoirs formed behind power and flood control dams.

Full consideration is given to public outdoor recreation as a purpose in the planning of water resource development projects by the Army's Corps of Engineers. Along with flood control, power and other benefits, recreation is a major item in the Libby Dam and Reservoir Project. We shall be co-operating with other Federal, State and local agencies in planning the development of Libby Reservoir for extensive recreation use.

RIGHT: LIBBY STUDIO PHOTO OF ONE OF MANY CHOICE RECREATIONAL SPOTS NEAR LIBBY



LEFT:  
A CUSTOM BUILT  
HOME SOLD BY  
MAURER REALTY



LEFT:  
MAURER REALTY'S  
LATEST 1965-1966  
HOUSING DEVELOP-  
MENT KNOWN AS  
LYNNWOOD HOMES

## MAURER REALTY OF LIBBY, MONTANA

"Leaders in Land Development"

Residential, Business, Commercial Property, Acreages, Light Industrial, Building Lots, Recreational Sites and Properties

WESTGATE BUSINESS ADDITION

A Planned Commercial Development for Retail - Warehousing and Light Industrial Sites. Lots for Sale, Lease or Will Build for Lease. Rail Siding Available Upon Request.

MAURER REALTY — EXCLUSIVE AGENT



STUART SWENSON, OWNER AND MANAGER OF MAURER REALTY, LOOKING OVER ANOTHER 100 ACRES TO BE DEVELOPED FOR FUTURE HOUSING



## MONTANA LUGING CAPITAL OF THE U. S. A.!

LEFT: LUGE SLED BUILT  
IN MISSOULA  
BELOW: SKETCH OF AMERICA'S  
FIRST LUGE RUN

FIRST LUGE RUN IN THE UNITED STATES LOCATED AT LOLO  
HOT SPRINGS, MONTANA

First National A. A. U. and North American  
Championship Luge Events at Lolo Hot  
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Manufactured by the Tuck Steel and Spring  
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tion of Official Luge Courses**  
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ABOVE: COMMUNICATIONS BUILDING WITH MICROWAVE TOWER

Communications are "mountain hopping" in Montana. The completion of a Livingston-Mammoth microwave system, providing expanded long distance facilities for Yellowstone Park, was a test of engineering ingenuity for Mountain States Telephone Company technicians in crossing a mountain range approximately 10,000 feet high. It is typical of the progress achieved in extending inter-city microwave communications to serve nearly all of the company's 121 exchanges in the state. Transcontinental systems traverse the state permitting calls to be directed anywhere in the nation at the speed of light. Alternate routes provide "back-up" for military and other government services as might be required in an emergency.

Activities in technology and research have provided service innovations and new types of communications equipment which have been introduced and expanded throughout Montana. Some of these new developments include direct distance dialing, push button telephones, data transmission instruments and dial mobile telephone service.

Montana's telephone network is composed of the facilities of twenty-one telephone companies and associations. Their combined efforts have helped tie together the mountain and plains areas of the Big Sky Country into a community of interest for residents and business firms alike.

By Frank Bell  
Mountain States Telephone Company

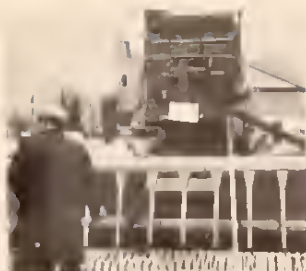


## ASSOCIATION FORMED

Tentatively Named

### AIM

### Associated Inventors of Montana



FIRST PRIZE—GRAIN DIVISION. WINDREEL, PICKUP, SMOG CONTROL, PUMP, DRILL FILLER, AND MOTOR, BY CURT PHILLIPS OF RUDYARD, MONTANA.



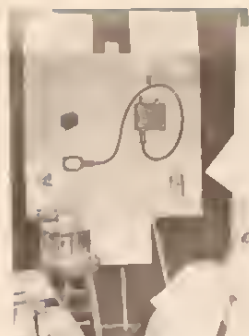
FIRST PRIZE—MERCHANDISING EQUIPMENT. MUZZLE BLAST, RE-COIL AND FLASH REDUCER BY E. G. DAHL OF BILLINGS, MONTANA.



FIRST PRIZE—LIVESTOCK DIVISION. SQUEEZE BALE LOADER BY LAWRENCE SCHMIDT OF JAMESTOWN, NORTH DAKOTA.



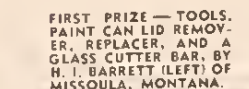
VOTED THE MOST POPULAR INVENTION EXHIBITED AT THE MONTANA INVENTORS CONGRESS WAS THE REEL SCREEN, ENTERED BY FRANK TWITCHELL OF BOZEMAN, MONTANA. WINDOW PICTURED AT LEFT SHOWS SCREEN CASING MOUNTED ON SILL, SCREEN ATTACHED TO BOTTOM OF WINDOW, AS WINDOW IS RAISED, NYLON SCREEN UNWINDS FROM THE REEL INTO PLACE. OPPOSITE SIDE OF WINDOW IS SHOWN AT RIGHT, DEMONSTRATING SNUG FIT OF WINDOW WITH SCREEN ATTACHMENT.



FIRST PRIZE—ELECTRICAL. REMOTE CONTROL AIRPORT LIGHTING SYSTEM—"BILGY," AND "CONTROL" BY PROTO. DYNE SYSTEMS, INC., SEATTLE, WASHINGTON



FIRST PRIZE—NOVELTY AND SPECIALTY CATEGORY. STEREO PILLOW, SILENT ACOUSTIC WALL DECOR, COLORAMA DISPLAY PROJECTOR, BY BARNA MAJOROS OF TELEVOX, INC., BILLINGS, MONT.



FIRST PRIZE—TOOLS. PAINT CAN LID REMOVER, REPLACER, AND A GLASS CUTTER BAR, BY H. I. BARRETT (LEFT) OF MISSOULA, MONTANA.



In attempting to bring inventors and manufacturers together to develop new state industry, the first annual Montana Inventors' Congress was held last May 21, 22 and 23 in Lewistown, Montana. This Congress was sponsored by the Montana State Planning Board, the Montana Chamber of Commerce, and the Lewistown Chamber of Commerce.

There were 62 inventors registered and 69 inventions exhibited during the Congress. There were also seven manufacturers registered who exhibited inventions that are now in production. Besides Montana, there were exhibits from Washington, Wyoming and Colorado. Experts from the U. S. Department of Commerce, the Small Business Administration, patent attorneys, engineers, advertising agents, and financial experts were available for consultation during the three day Congress.

Presentation of awards by Dr. Ed Keltner, manager of the State Chamber of Commerce, took place on Sunday, May 23. A screen reel for sliding windows, invented by Frank Twitchell of Bozeman, was voted the most popular invention. Second most popular exhibit was the Grace N-Air Flying Saucer built by Leonard Grayson of Dillon. He said the saucer, three feet in diameter, will travel 60 miles per hour, and a larger model could go at least 300 miles per hour. Televox, Inc., of Billings won first place in two judging divisions: the novelty and specialty group with a stereophonic pillow, and in merchandising equipment with a display projector.

Featured speaker at the Congress was B. G. MacNabb, manager of operations for General Dynamics Convair at Cape Kennedy, Florida. MacNabb, the man in charge of Atlas space projects, told the Congress that because of competition many states are turning to inventors' congresses to discuss and develop locally new ideas which can be transformed into a new home-grown business or industry. A number of other speakers addressed meetings during the Congress advising on financing, marketing, patents, and advertising.

The Montana inventors met on Sunday and organized the Associated Inventors of Montana (AIM). Mr. Kenneth A. Blevins of Missoula was elected president. Other officers are Charles W. Cooley of Lewistown, vice president; and Patrick A. Byrne of Helena, secretary-treasurer. The newly formed Association voted to hold the second annual Inventors' Congress again in Lewistown, May 20-22 in 1966. Subsequent congresses will be held in a different Montana city each year.

The Congress was termed most successful and plans are underway for a bigger and better meeting next year.



B. G. MACNABB, MANAGER OF OPERATIONS FOR GENERAL DYNAMICS CONVAIR AT CAPE KENNEDY, WAS IN LEWISTOWN MAY 21-23 TO ADDRESS THE MONTANA INVENTORS CONGRESS. HE IS THE MAN RESPONSIBLE FOR THE FLIGHT TEST PROGRAM OF THE FREE WORLD'S FIRST OPERATIONAL ICBM, THE ATLAS MERCURY MANNED SPACE FLIGHT PROJECT; THE ATLAS AGENA SPACE EXPLORATION PROJECT; AND THE ATLAS CENTAUR DEEP SPACE EXPLORATION PROGRAM. HE SERVED IN THE NAVY DURING WORLD WAR II AND RECEIVED A PRESIDENTIAL CITATION FOR DEVELOPMENT OF THE FIRST ANTI-KAMIKAZE AND ANTI-AIRCRAFT WEAPON. HE IS A GRADUATE OF THE ILLINOIS INSTITUTE OF TECHNOLOGY AND A MEMBER OF THE AMERICAN INSTITUTE OF AEROSPACE AND ASTRONAUTICS.

# ML

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MOUNTAIN LOGGERS BEING READIED FOR SHIPMENT





# MONTANA FORESTS AND FOREST INDUSTRIES

By Kent T. Adair

## THE FORESTS:

Montana has approximately 17,300,000 acres of commercial forestland (5). Most of this acreage is located in the mountains of the western one-fourth of the state. An estimated 11,801,000 acres of this total are owned by various public agencies. The U.S. Forest Service, with 10,578,000 acres, is the largest single landowner. Approximately one-fourth (1,047,000 acres) of the 4,860,000 acres of privately-owned, commercial, forestland are owned by the forest industry. The largest private landowner group in the state, however, is the farmer with 2,002,000 acres (Table 1).

Table 1. Commercial forestland ownership in Montana, 1962

Landowner	Thousand Acres
U.S. Forest Service	10,578
Bureau of Land Management	612
Bureau of Indian Affairs	595
Miscellaneous Federal	16
State	601
County and Municipal	38
<b>TOTAL PUBLIC</b>	<b>12,440</b>
Lumber companies	1,047
Farmers	2,002
Miscellaneous private	1,811
<b>TOTAL PRIVATE</b>	<b>4,860</b>
<b>GRAND TOTAL ALL OWNERSHIPS</b>	<b>17,300</b>

Source: Timber Trends in the United States, USDA, Forest Service Forest Resource Report No. 17, 1965 (5).

The commercial forestland in Montana contains an estimated 86,488 million board feet of mature softwood sawtimber and 20,281 million cubic feet of growing stock (5). This resource provides raw material for the wood products industry in the state and also serves as habitat for wildlife, recreation, grazing, and water resource development.

## THE MONTANA WOOD PRODUCTS INDUSTRY

The Montana wood products industry is a primary manufacturing industry concerned mainly with the conversion of trees into logs and logs into a wide variety of products. The industry is a leader in terms of income generated within the state; it employs approximately 8,800 people in logging and milling activities (4), and it is composed of approximately 50 large sawmills which operate continuously, several hundred smaller sawmills which operate only intermittently or during times of relatively high lumber prices, one pulp and paper plant, several pole treating yards, some 30 to 40 post yards, an established Christmas tree industry, and one shingle mill. There are, also, several secondary manufacturing plants producing custom mill work, laminated beams, modular panels, novelty products, rustic and finished furniture, and pre-fabricated homes. The industry is thus diversified in the sense that many different products are manufactured in the state but concentrated in that the primary products are limited to lumber, plywood, and pulp and paper.

## THE LUMBER INDUSTRY

The lumber mills in Montana vary in size from the smallest portable sawmill producing only a few thousand board feet of lumber per year to large integrated plants producing in excess of 150 million board feet of lumber and dimension stock per year.

During the 1950's, Montana lumber production increased from about 600 million board feet in 1950 to more than one billion board feet in 1960. This expansion reflected a doubling of Montana's share of the national lumber market during the decade. The actual figures indicating an increase from 1.7 to 3.5 percent of the national lumber market (7).

This expansion also reflects a considerable change in the Montana lumber industry since 1950. The advent of plywood nationally and in the state has increased the market price of large sawlogs to local mills and, nationally, the lower installed cost of plywood has eliminated much of the market for one-inch boards. As a result, nearly all sawmills have become more competitive by improving their productive facilities or they have been forced out of business. In addition, many new plants designed to manufacture small-sized logs have been established in the state. Ten new, highly automated and efficient, sawmills were constructed in Montana during the period from 1952 to 1957. These mills were designed, primarily, to convert small sized logs into studs and thus avoid competition with larger-sized sawlogs (3).

These new plants have also avoided excessive competition in the one-inch board market by concentrating on the production of dimension material. In fact, the newer sawmills in the state concentrate almost exclusively on the production of studs and other dimension material while the older firms produce proportionally more one-inch material (1).

A number of the new plants in Montana migrated, as independent operators, from the West Coast. Others, however, were constructed as subsidiary operation of established Montana firms. The ten new plants constructed in Montana during the 1950's have a combined single-shift capacity of 287 million board feet per year (3). Also, there have been a number of new plants constructed in the state since 1957. Thus most of the increase in lumber production during the 1950's and early 1960's can be traced to these new mills, especially if one considers that each mill normally operates on a two-shift per day basis.

Not only have these new mills and modernized existing mills contributed to the expansion of production in the state but because of their specialization and automation, they have aided a reduction in the relative price of Montana-produced lumber on the national market. As a result they have contributed to the increased importance and enhanced competitive status of Montana in the national softwood lumber market.

Annual lumber production currently exceeds one billion board feet in Montana; about one-half of this volume is 4-4 (one-inch) lumber and one-half is dimension stock such as studs, planks, and timbers (1). Major lumber species are western larch, Douglas-fir, and Engelmann spruce and ponderosa pine with lesser amounts of lodgepole pine, and other commercial softwoods being represented in varying quantities (7).

The Montana lumber industry tends to be concentrated around urban centers within the forested area of the state. Major production centers are located at Missoula, Kalispell, Columbia Falls, Whitefish, and in the Libby-Troy area. Smaller milling centers include Superior, Thompson Falls, Deer Lodge, Belgrade, Bozeman, St. Regis, White Sulphur Springs, and Lincoln. These centers include most of the important lumber producers in the state. There are, however, numerous smaller sawmills located wherever suitable supplies of standing timber and profitable markets are available.

Most of the raw material for the lumber industry is obtained from Montana forestlands. Nearly all logs cut in Montana are manufactured into products within the state but some logs are converted in Idaho sawmills. This drain is more than compensated, however, by the several million board feet of logs cut in Idaho each year and hauled into Montana for manufacture. Also, some Canadian logs are imported and converted into products by sawmills located in the northern portion of the timbered area of Montana.

Major markets for Montana-produced lumber are located on the Atlantic Coast, in the South, and in the Great Lakes region with smaller volumes being sold to consumers in nearly every region of the continental United States. Lumber consumption within the state has increased, but over 85 percent of Montana's lumber output is sold to consumers hundreds of miles away. The industry is thus dependent on a system of market intermediaries to identify consumer demand and deliver the product to purchasers who never meet the individual producer. Thus, continued vigor and expansion of the Montana lumber industry appears contingent on the development of those traditional and new markets and market areas best served by the Montana lumber industry as well as on the continued availability of raw materials within the state.

1 Sawtimber trees must have a minimum diameter outside the bark of 9.0 inches at a point 4 1/2 feet above the ground. Growing stock diameters range from 5.0 to 8.99 inches.



FORESTS FOR TODAY AND TOMORROW, TOO!

## THE PLYWOOD INDUSTRY

Nationally, softwood plywood production is the fastest growing segment of the wood products industry. It has averaged a 14 percent annual growth each year for the past 15 years. The plywood industry in Montana has shown similar, but not equal, growth. The first plywood plant in Montana was constructed in 1955, two additional plants were built in 1960 and one new plant was constructed in the state in each of 1962, 1963, and 1964. Thus, five of the six plywood plants in Montana have been constructed since 1959. The primary products are interior paneling and the various construction grades of plywood. Annual production now stands at an estimated 359 million square feet (¾ inch basis) or, as with lumber, at approximately three percent of the national figure (2).

The plywood industry is located in the same general geographical area as the lumber industry with production centers being concentrated near the urban communities of Missoula, Kalispell, Columbia Falls, and Polson, all of which are located in the forested region of western Montana.

Four of the six plywood plants in Montana are subsidiaries of larger, national, wood product organizations. The remaining two firms are independent Montana operators. All six, however, market plywood throughout the United States selling either through the parent organization or through a system of wholesale plywood outlets.

Most of the raw material for the plywood industry is obtained from Montana forestlands although some plywood bolts are imported from Idaho. Plywood production requires the same species and sizes of logs as does one-inch lumber production. Approximately 52 percent of the current plywood production in Montana is western larch, 34 percent is Douglas-fir, and the remaining 14 percent is Engelmann spruce, all prime lumber species. Thus, the plywood industry is in direct competition with the lumber industry for the available supply of sawlogs in Montana. This competition has encouraged the lumber industry to construct sawmills designed to efficiently convert the large volume of less-than-sawlog-sized material available in the state. It also implies that continued expansion of the plywood industry can only be obtained at the expense of the lumber industry. Balanced economic expansion of the plywood industry in western Montana thus appears contingent on disinvestment in existing one-inch lumber mills and re-investment in plywood plants.

## THE PULP AND PAPER INDUSTRY

Total paper and paper-board production in the United States increased from 291 million tons in 1950 to 423 million tons in 1962, an increase of 45 percent during the 12 year period (5). Growth of the pulp and paper industry in Montana has not kept pace with national trends. One pulp plant was constructed at Missoula in the middle 1950's and there have been no new mills constructed since that time. The existing plant has, however, installed one paper-making machine and recently announced intentions of increasing pulp production from approximately 600 to 900 tons per day and installing a second paper-making machine.

The existing plant relies entirely on chippable mill residues as a source of raw material. Log debarkers and residue chippers have been installed by the larger sawmills and in some plywood plants. The chips are sold under contract to the pulp plant. The revenue from chip sales has tended to stabilize the economy of the wood products industry in western Montana, particularly in the area of Missoula and other points immediately adjacent to the pulp plant.

There are sufficient mill residues and other pulp raw materials in western Montana to support a greatly expanded pulp and paper industry. In addition there are several sites having sufficient water supplies to support pulp production. The slow rate of growth of the industry to date, however, indicates that factors other than demand and raw material supply contribute to determine the progress of local industry. Indeed, new construction of pulp and paper plants in western Montana appears contingent on the industry's ability to fabricate plants having local, popular acceptance.

## OTHER PRODUCTS

The output of specialized wood products in Montana has increased. However, the total contribution of the industry to the state is not known with precision at the present time. There appears to be opportunities for expansion in some areas such as fabricated plywood-lumber panels, box-beams, roof and floor trusses, etc. and it is expected that the production of these secondary-manufacture items will increase in the future. However, each opportunity must be evaluated according to its own merits and the extent of potential expansion in this area is probabilistic at present.

## SUMMARY

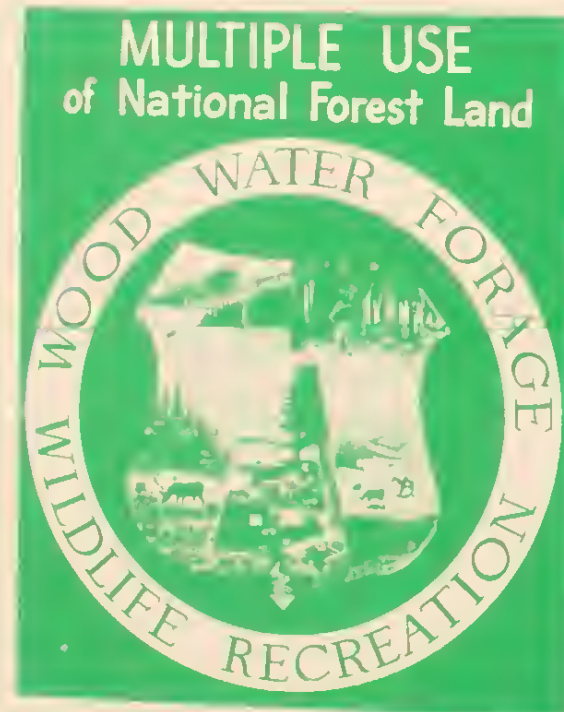
The forest products industry of Montana is an industry in transition. New mills have been built to produce traditional wood products more efficiently and new items such as plywood, pulp, paper, and specialized wood products have been introduced during the past decade or so. The industry is thus growing in terms of numbers of products produced in the state and becoming a more competitive producer of traditional lumber and related wood products. The forest products industry is thus a significant segment of the Montana economy, particularly in western Montana, and it is expected to contribute to the progress of the state in the future.

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BELOW: SMOKEJUMPERS ARE TRAINED AT THE REGION ONE FOREST SERVICE AERIAL FIRE DEPOT, SEVEN MILES WEST OF MISSOULA, MONTANA.







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110,000 BOARD FEET,  
VARIOUS DIMEN-  
SIONS OF PINE, FIR,  
LARCH AND SPRUCE  
FLOW CONTINUOUS-  
LY INTO THE MAR-  
KETS OF THE WORLD

UTILIZING FORMER  
WASTE MATERIAL,  
WOOD CHIPS ARE  
PRODUCED AND  
SHIPPED REGULARLY  
TO WALDORF.  
HOERNER PAPER CO.  
BY THE TRAINLOAD



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**BROTHERS**  
Lumber Company, Inc.

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**KEEP OUR HIGHWAYS CLEAN**



ABOVE: AIR VIEW OF  
YELLOWSTONE PINE  
COMPANY MILL AT  
BELGRADE, MONTANA

LEFT: BUSY YARD SCENE  
AT BELGRADE MILL

LOWER LEFT: HUGE  
STACKS ARE MAINTAINED  
TO KEEP MILL RUNNING  
STEADILY

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GALLATIN VALLEY  
BELGRADE, MONTANA

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TELETYPE  
406  
388  
664

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Blaine Cobat, President—Hall Templeton, Vice President  
James Bryson, Secretary

BELOW: YARD SCENE AT MILL SHOWS GOOD "HOUSEKEEPING"





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NEW, MODERN "PENTA" TREATING PLANT WITH A 9 x 54 FOOT TANK  
PENTA PRESSURE TREATED LUMBER AND TIMBERS PROTECT YOU AGAINST WOOD ROT AND TERMITE DAMAGE



ABOVE: PENTA-TREATED FOREST PRODUCTS



ABOVE: WOODS OPERATIONS FOR BITTERROOT TIMBER INDUSTRIES

BELOW: AIR VIEW OF BITTERROOT TIMBER INDUSTRIES, INC., MILL AT DARBY

78

BELOW: AIR VIEW OF SHOOK'S NEW MILL AT CON







LEFT: AIR VIEW  
OF MISSOULA  
SAWMILLS, INC.



INSET AT BOTTOM  
OF PHOTOGRAPH  
SYMBOLIZES THE  
STEADY FLOW OF  
QUALITY LUMBER  
FOR THE NATION'S  
MARKETS

RIGHT: MONTAGE  
OF TYPICAL MILL  
PICTURES . . .

With Over One Hundred Year-Around Employees, the Missoula Sawmills, Inc. and its Affiliated Stillwater Logging Co. Give Missoula a Steady Half-Million Dollar Payroll

KEEP  
MONTANA  
GREEN!



MISSOULA  
SAWMILLS, inc.

TELEPHONE 549-4117 • P.O. BOX 99 • MISSOULA, MONTANA 5980

ROUGH AND FINISHED LUMBER DRY KILNS THIRTY-FIVE MILLION  
BOARD FEET PER YEAR OF PRECISION-CUT FIR, LARCH AND SPRUCE

PHOTOGRAPHS AT RIGHT ARE LOGGING SCENES TAKEN  
IN SUB-ZERO WEATHER WHICH STILLWATER LOGGING  
COMPANY CREWS TAKE IN STRIDE.

Stillwater  
LOGGING CO.



# MUSSELSHELL LUMBER COMPANY

P. O. BOX 277 - DIAL 358-3911  
MELSTONE, MONTANA

Harold Kicker  
and Sons

★  
ROUGH  
AND  
PLANED  
LUMBER

★  
HARDWARE

★  
PEELED  
AND  
SQUARED  
POST  
PEELED POLES

★  
CUSTOM  
SAWING  
AND  
PLANING



PICTURES TAKEN AT OUR MILL — PHOTO  
AT LEFT SHOWS SOME OF OUR FINE RANCH  
COUNTRY FIVE MILES WEST OF MELSTONE  
ON U. S. HIGHWAY 12

P. M. CANADIAN  
CHAIN SAW  
AGENCY

KEEP OUR  
FORESTS  
GREEN!

PHOTOGRAPH AT  
RIGHT RUN BY  
COURTESY OF  
AUBURN  
COCKERHAM  
LOGGING,  
BELGRADE,  
MONTANA



WHITEHALL  
SAWMILL  
FRANCIS R. TAYLOR  
Proprietor

EVERYTHING  
IN LUMBER  
DELIVERED  
ANYWHERE  
TONGUE & GROOVE  
HOUSE LOGS  
MADE FROM  
DRY LOGS  
WHITEHALL,  
MONTANA



ABOVE: SAWMILL SCENE AT WHITEHALL SAWMILL  
BELOW: STACKING POLES AT KALISPELL



Poles are Big  
Business in Montana  
Picture at Left Shows  
Part of Huge Pole  
Yard at Kalispell  
Pole & Timber Co.,  
Which Produces

- Utility Poles
- Piling
- Building Poles
- Fence Posts



# EVERGREEN PRODUCTS

**MOUNT LOLO LUMBER CO.**  
**ELKHORN LUMBER CO.**  
**MONTANA LUMBER SALES**  
 All of Missoula, Montana  
**DELANEY & SONS LUMBER CO.**  
 Lincoln, Montana

ABOVE: DELANEY AND SONS LUMBER CO., LINCOLN, MONTANA

PHOTOGRAPHS RIGHT AND  
 BELOW SHOW OPERATIONS  
 AT MISSOULA MILLS

Working With The  
 Forest Products  
 Industry to Insure  
 Forests For 1966  
 And 2066 Too!

ERAL OFFICES,  
 OULA — MILLS AT  
 OULA & LINCOLN,  
 MTANA

MT. LOLO

ELKHORN LUMBER CO.

DELANEY & SONS LBR.

MONTANA LBR. SALES

KNOWN AND RECOGNIZED  
 AS QUALITY BRAND END MARKS  
 IN THE LUMBER MARKETS OF THE WORLD

♣	MT. LOLO	♣
♣	ELKHORN	♣
♣	DELANEY & SONS	♣
♣	MONTANA LBR. SALES	♣

OUR END MARK ASSURES  
 TOP GRADE, PRECISION-CUT LUMBER



LEFT: AIR VIEW  
OF DIEHL LUMBER  
COMPANY MILLS AT  
PLAINS, MONTANA

## DIEHL KILN DRIED LUMBER

**MONTANA'S  
FINEST  
LUMBER...**

SHIPPED NATIONWIDE — ALSO  
PRODUCING GROUND BARK  
FOR SOIL CONDITIONING



OVER TWENTY YEARS OF QUALITY FOREST PRODUCTS TOTALING BETWEEN  
30 AND 35 MILLION BOARD FEET ANNUALLY WITH WASTE CONVERTED TO  
WOOD CHIPS USED FOR PAPER PRODUCTS PRODUCTION AT MISSOULA



Specialists in Serving the Insurance Needs of  
Western Montana Industry and Commerce  
Far Over 25 Years

**MYRDAL CO.**

*Insurance*

PROPERTY & CASUALTY  
CONSULTANTS

Direct Lloyds of London Facilities — For Complete Information  
Dial Missoula 549-2311 — Hotel Florence — Main Floor —  
Missoula, Montana





## WELCOME TRAVELER ---

Please Help Us Keep Montana As  
You See It -- You Will Probably Want  
to Come Back Again and Make Your  
Home Here in this Beautiful Land ...

## MONTANA'S TEN NATIONAL FORESTS

GUARANTEE PERPETUAL ABUNDANCE OF RESOURCES THAT  
MAKE THE TREASURE STATE A FINE PLACE TO LIVE, TO  
WORK AND TO PLAY

BEST PRODUCTS, WATER, FORAGE, WILDLIFE AND RECREATION

ONLY YOU CAN PREVENT FOREST FIRES



## BROEDER BROTHERS LUMBER COMPANY

Photographs Taken at Broeder Brothers Mill  
at Creston, Montana

**BOOST THE MONTANA FOREST PRODUCTS INDUSTRY**

DIAL CRESTON 884-3301 OR KALISPELL 756-3950

**WORKING WITH ALL INDUSTRY TO IMPROVE THE ECONOMIC BASE OF MONTANA**




- 
- ★ PAYROLLS
  - ★ TAXES
  - ★ ECONOMIC
  - ★ DEVELOPMENT
  - ★ QUALITY
  - ★ QUANTITY
  - ★ SAFETY



Forests For Today And  
2066 Too -- That's REAL  
Production



**KEEP MONTANA  
GREEN!**



Modern Practices by the Montana  
Forest Products Industry TODAY,  
Insure Scenes Like Above and  
Right TOMORROW!



## WORKING WITH THE FOREST PRODUCTS INDUSTRY

By Swiftly and Economically Transporting Former Waste Material to the  
Waldorf Hoerner Pulp and Paper Mill for Conversion into Pulp and Paper

BOX 94  
MISSOULA,  
MONTANA

## THE MISSOULA CARTAGE COMPANY

Hauling Wood Chips to Waldorf-Hoerner Mill

DIAL  
549-9291

AND

## TRIPLE W TRANSPORT

SERVING NEARLY 20 SAWMILLS, WASTE FOR  
FUEL, AND POWER TO MANUFACTURE  
PULP AND PAPER

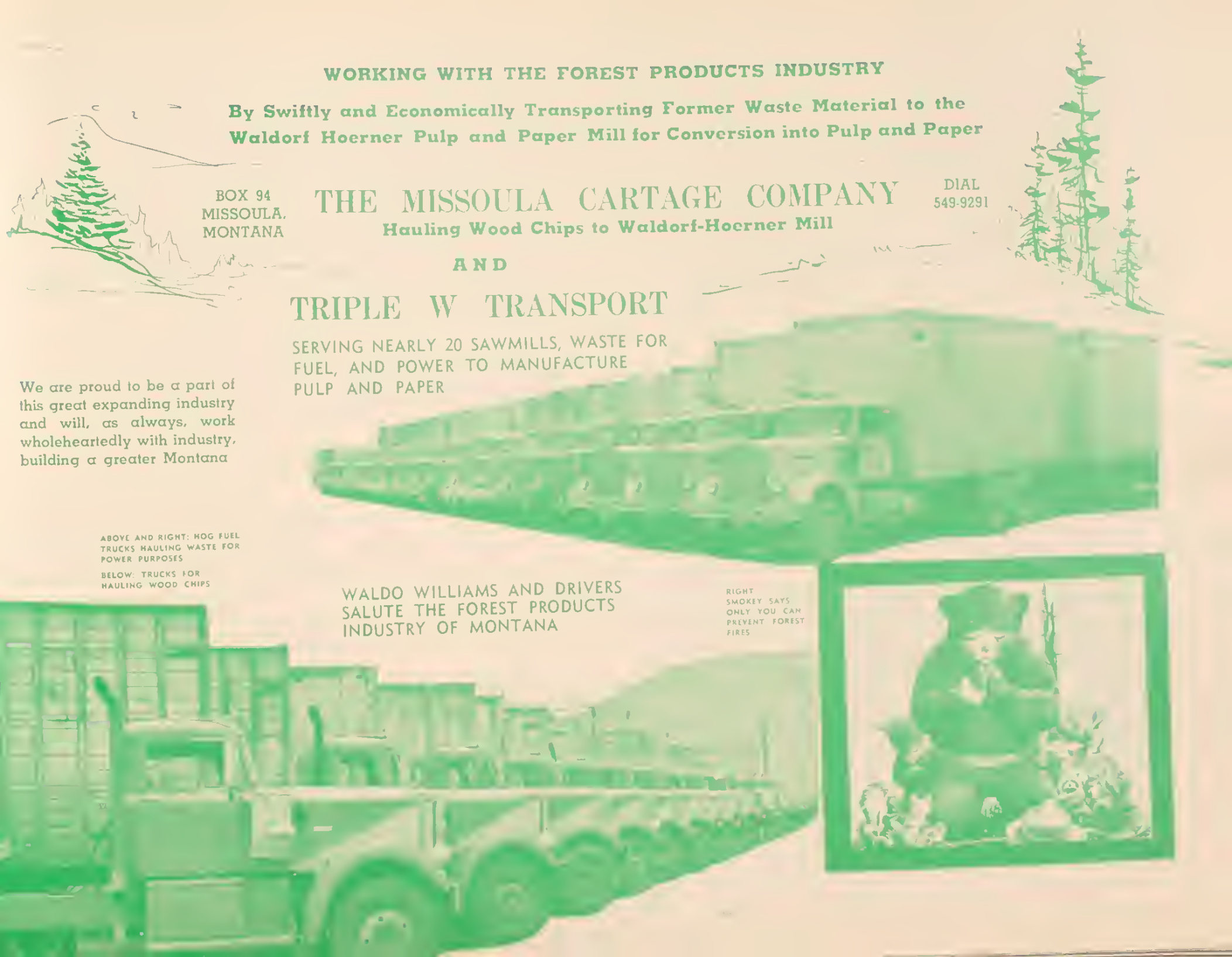
We are proud to be a part of  
this great expanding industry  
and will, as always, work  
wholeheartedly with industry,  
building a greater Montana

ABOVE AND RIGHT: HOG FUEL  
TRUCKS HAULING WASTE FOR  
POWER PURPOSES

BELOW: TRUCKS FOR  
HAULING WOOD CHIPS

WALDO WILLIAMS AND DRIVERS  
SALUTE THE FOREST PRODUCTS  
INDUSTRY OF MONTANA

RIGHT  
SMOKEY SAYS  
ONLY YOU CAN  
PREVENT FOREST  
FIRES





## ROYAL LOGGING COMPANY

★ 50 EMPLOYEES  
★ \$5,000,000 PAYROLL  
★ LOGGING 10 MILLION BOARD FEET ANNUALLY



COLUMBIA  
FALLS,  
MONTANA  
DIAL  
892-5128

FIR, LARCH, PINE, SPRUCE

MILLS AT COLUMBIA FALLS AND  
PABLO, MONTANA



525 EMPLOYEES  
ANNUAL PAYROLL  
\$3,000,000.00  
PRODUCTION

LUMBER:  
117 MILLION  
BOARD FEET

PLYWOOD:  
80 MILLION  
FEET

WOOD CHIPS:  
216 MILLION  
POUNDS



## PLUM CREEK LUMBER CO.

MANUFACTURERS AND WHOLESALERS  
OF WESTERN SOFT WOODS

Columbia Falls, Montana



## *The Waldorf-Hoerner Paper Products Company*

Missoula, Montana

WALDORF-HOERNER PAPER PRODUCTS COMPANY  
TAKES PRIDE IN WORKING WITH THE FOREST  
PRODUCTS INDUSTRY TO ATTAIN COMPLETE  
UTILIZATION OF EVERY BOARD FOOT CUT!





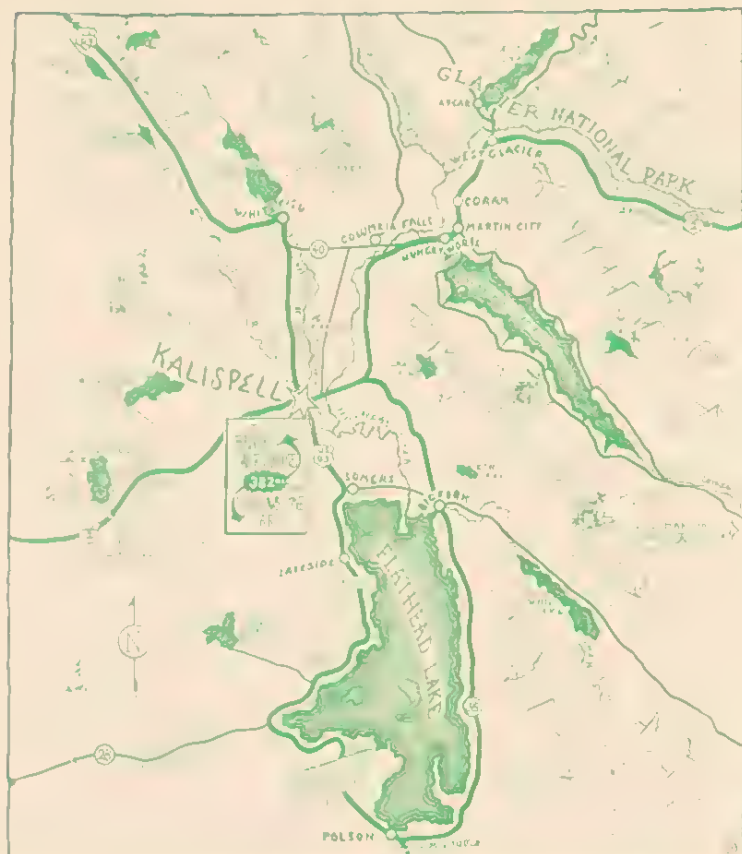


**SUMMER, WINTER, FALL OR SPRING**

**FOLLOW MONTANA'S MODERN HIGHWAYS  
TO ENJOY YOUR FAVORITE RECREATION  
SO YOU CAN COME AGAIN AND AGAIN.**

**PLEASE HEED SMOKEY'S PLEA:  
KEEP MONTANA GREEN**





BELOW:  
SUMMER CLOUDS  
OVER A TRANQUIL  
BAY ALONG THE  
WEST SIDE OF  
FLATHEAD LAKE.  
WITH THE RUGGED  
MISSION RANGE OF  
THE ROCKIES IN  
THE BACKGROUND  
THIS BEAUTIFUL  
AQUATIC PLAY  
GROUND OF  
NORTHWESTERN  
MONTANA DRAWS  
THOUSANDS OF  
VISITORS EACH  
YEAR AND IS ONE  
OF THE BEST  
KNOWN AND MOST  
POPULAR VACA-  
TION SITES IN THE  
WEST. ITS DEEP,  
BLUE HUED WATERS  
ARE IDEAL FOR  
BOATING, FISHING,  
SWIMMING AND  
WATER SKIING.  
ITS 135 MILES OF  
SHORELINE PRO-  
VIDE A COLORFUL  
SETTING FOR SUM-  
MER COTTAGES,  
ALL YEAR RESI-  
DENTIAL MANSIONS  
AND COMMERCIAL  
LODGES ALIKE.

MONTANA HIGH-  
WAY COMMISSION  
PHOTO



U. S. FOREST SERVICE PHOTOGRAPH OF A QUIET SPOT FOR OLD AND YOUNG ALIKE WHILE TOURING MON

## KALISPELL!!

WESTERN GATEWAY TO GLACIER NATIONAL PARK

Everything to do and Beauty to see in the

FABULOUS FLATHEAD COUNTRY OF MONTANA!

**MAKE THE FLATHEAD  
LAKE AREA  
Your Headquarters While  
Enjoying All Of  
Northwestern Montana ...**

HIGHWAYS 2 - 35 - 40 - 93

GLACIER NATIONAL PARK

BIG MOUNTAIN SKI AREA AT WHITEFISH

KALISPELL, WHITEFISH AND POLSON  
GOLF COURSES

HUNGRY HORSE DAM

FLATHEAD LAKE—ONE OF AMERICA'S  
LARGEST

And Scores of Other Scenic and Historic Places!

THIS COMMUNITY PAGE MADE POSSIBLE BY PRODUCTION SURVEYS  
OF MONTANA AND KALISPELL ADVERTISERS IN THIS PUBLICATION



# SIG LUDWIG AGENCY

*Real Estate  
Insurance  
Appraisals*



H PLAZA BUILDING • KALISPELL, MONTANA  
TELEPHONE: 756-9477 OR 756-9478  
**NORTHWESTERN SECURITIES Inc**

## NORTHWESTERN SECURITIES

— INC. —

"MONTANA OWNED BY MONTANA PEOPLE"

Take More Interest in Your Savings — Earn a  
Full 7% with Northwestern Securities, Inc.



## *Guest* PHOTO + ART & BOOKS

- 227 Main St. - Kalispell, Montana

PHOTOGRAPHIC HEADQUARTERS  
FOR THE FLATHEAD VALLEY  
THE HOME OF BETTER PICTURES



PHOTO  
PORTRAIT  
COMMERCIAL  
CAMERA REPAIRS  
PHOTO FINISHING  
GLACIER PARK VIEWS  
ENLARGING  
FRAMING  
COPYING  
CAMERAS  
FILMS  
TAPE RECORDERS



ART  
OILS  
CANVAS  
BRUSHES  
WATER COLORS  
SHOW CARD COLORS  
CERAMIC SUPPLIES  
METAL TOOLING



BOOKS  
BIBLES  
CHILDREN'S  
ADULT'S  
DICTIONARIES  
STAMP AND  
COIN ALBUMS



## FIRST FEDERAL savings and loan association of KALISPELL

WHERE

## HUNDREDS

of Northwest Montana Homes  
Are Financed By

## THOUSANDS

of Northwest Montono People  
Who Save

## MILLIONS

of Dollars

WHERE YOU

SAVE

DOES

MAKE A

DIFFERENCE





## FRIENDLY KALISPELL TRADING CENTER FOR NORTHWEST MONTANA

15,000 Population

1,500 Accommodations

- Fine Modern Stores
- Big City Stocks
- Your Choice of Motel Accommodations
- A Dozen New Car Agencies
- Top Restaurants and Night Spots
- First Class Hospitals and Medical Services
- Three Great Golf Courses
- Churches Library — Summer Theatre
- Movies — Cable TV — Bowling

Sponsored by  
Production Surveys  
of Montana

Northwest Montana

1305 4th Street West  
Kalispell,  
Montana



# NORTHWEST MONTANA HAS WHAT YOU WANT!

## DIVERSITY

Forest products, aluminum reduction, general manufacturing, rail-road operation and maintenance, recreation, agriculture, service and trade are all factors in the diversified economy of this growing area.

## RECREATION

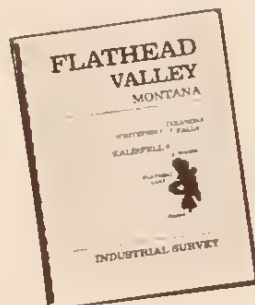
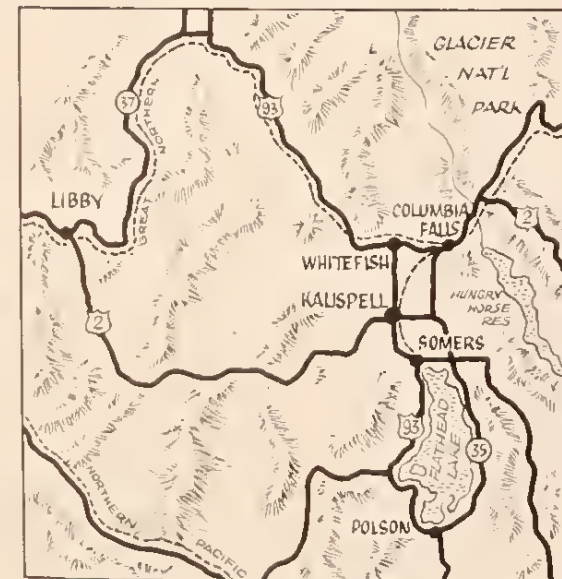
From Glacier National Park and Big Mountain Ski Resort to the Kalispell community concert organization and Big Fork Summer Theater, northwest Montana offers many forms of recreation. Large and beautiful Flathead Lake offers excellent fishing and boating.

## TRANSPORTATION

The Great Northern Railway serves Kalispell, Whitefish, Columbia Falls, Somers and Libby, four bus lines serve the Flathead Valley and U. S. Highways No. 93 and No. 2 carry traffic through the area. In addition, air connections to all points may be made from the Flathead County Airport.

## INDUSTRIAL SITES

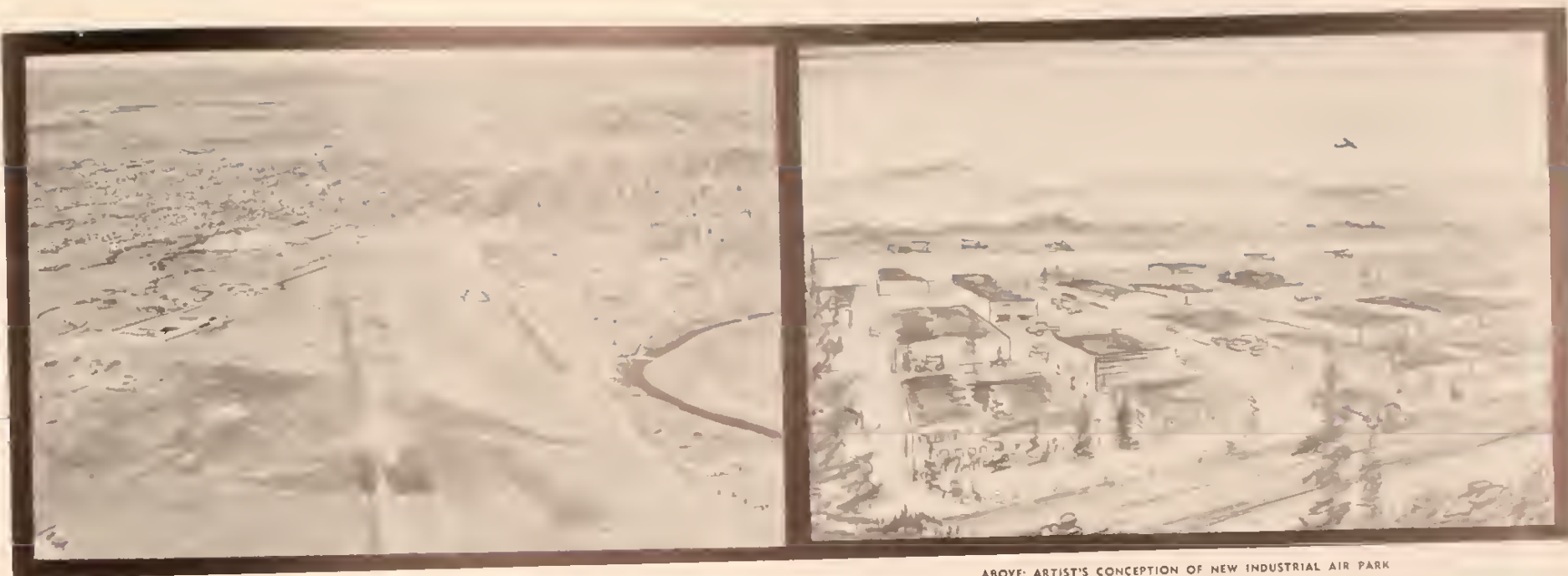
Locations are obtainable at reasonable cost not only for industry, but for recreation facility development.



FOR AN INDUSTRIAL SURVEY REPORT, INCLUDING MAPS OF INDUSTRIAL SITES, WRITE  
PACIFIC POWER & LIGHT COMPANY, P. O. BOX 250, KALISPELL, MONTANA 59901,  
OR INDUSTRIAL DEVELOPMENT DEPARTMENT, PACIFIC POWER & LIGHT COMPANY,  
PUBLIC SERVICE BUILDING, PORTLAND, OREGON 97204

**PACIFIC POWER & LIGHT COMPANY**





ABOVE: AIRVIEW OF NEW SITE WITH KALISPELL IN THE BACKGROUND

ABOVE: ARTIST'S CONCEPTION OF NEW INDUSTRIAL AIR PARK

## KALISPELL INDUSTRIAL AIR PARK

**Northwestern Montana's New Industrial Park on Highway 93, Boasts a Modern Airport,  
Right At The Door of Your New Factory or Distribution Warehouse . . .**

**KALISPELL--TRADING AND DISTRIBUTION CENTER FOR ALL NORTHWEST MONTANA**

LOTS OR ACREAGE FOR SALE OR LEASE ON U. S. HIGHWAY 93 OFF KALISPELL'S CITY LIMITS WITH ACCESS TO THE  
NEW 42 HUNDRED FOOT LONG CITY AIRPORT

DEVELOPED BY  
**VALLEY RESEARCH AND  
DEVELOPMENT CORP.**

KALISPELL, MONTANA

GAS, ELECTRICITY AND WATER CON-  
NECTIONS AVAILABLE ON ALL SITES

WRITE, WIRE OR DIAL  
756-4397 — BOX 457  
KALISPELL, MONTANA



# HARP LINE CONSTRUCTORS CO.

MAIN OFFICE HIGHWAY 2 EAST

POST OFFICE BOX 61

KALISPELL, MONTANA

**POWER CONSTRUCTION**

**TELEPHONE CONSTRUCTION**

**Transmission and Distribution Lines -- Sub-Stations -- Maintenance**

AREA CODE 406

Main Office, Dial 756-7983  
Shop, Dial 756-6386

Radio Dispatched Trucks

Shops Located at 210 La Salle Road

Servicing Western United States,  
Canada and Alaska

Aerial or Underground Cable Work

Pole Lines and Maintenance

PHOTOGRAPH AT LEFT: TRANSMISSION LINES  
PHOTOGRAPH BELOW: SUB-STATION INSTALLATION



JOHN R. HARP PRESIDENT



ABOVE: WIRE STRINGING  
ON TRANSMISSION AND  
DISTRIBUTION LINES





## COLUMBIA PAINT COMPANY

THE COLUMBIA PAINT COMPANY, MONTANA'S ONLY MANUFACTURER OF A FULL LINE OF PAINTS AND RELATED MATERIALS, WAS FOUNDED IN 1947 AT HELENA, MONTANA. THE COMPANY HAS EXPERIENCED RAPID EXPANSION SINCE INCORPORATION AND NOW OPERATES RETAIL AND FACTORY WAREHOUSE OUTLETS IN MONTANA, WASHINGTON AND IDAHO.

THE COLUMBIA PAINT COMPANY IS A MEMBER OF AN INTERNATIONAL ORGANIZATION, THE COLOR GUILD. THIS ORGANIZATION OF PAINT MANUFACTURERS IS DEDICATED TO THE ADVANCEMENT OF THAT INDUSTRY



SHOWN ABOVE IS A PORTION OF COLUMBIA'S MODERN WAREHOUSE FACILITY AT HELENA, WHERE ALL COLUMBIA PRODUCTS ARE MANUFACTURED. PIGMENTED COATINGS FOR HOME AND INDUSTRY, AS WELL AS STATE AND FEDERAL GOVERNMENTS

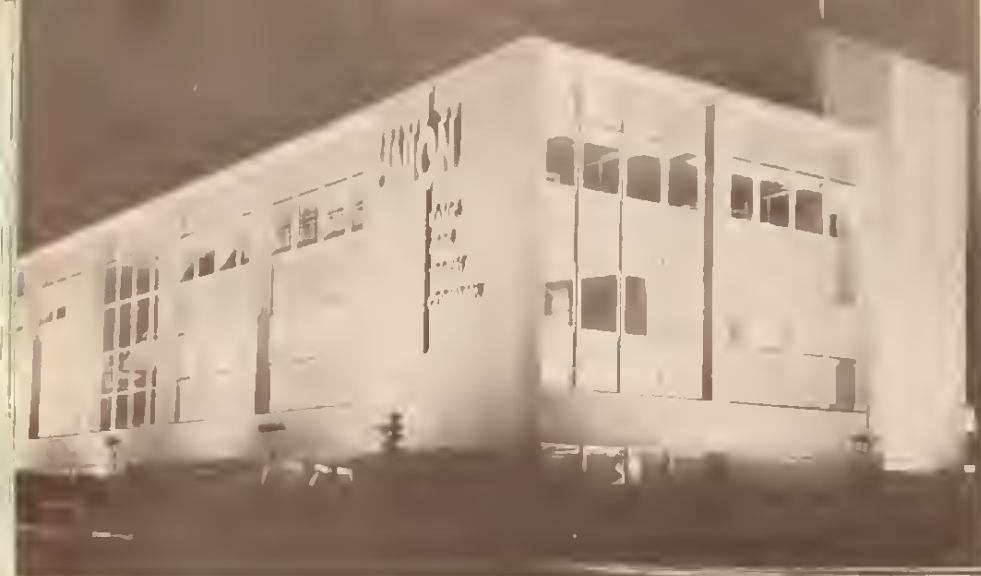
## AMERICAN CHEMET CORPORATION



THE AMERICAN CHEMET CORPORATION, LOCATED AT EAST HELENA, MONTANA, HAS OPERATED IN THE STATE SINCE 1946, AND IS THE PARENT CORPORATION OF THE COLUMBIA PAINT COMPANY. AMERICAN CHEMET PROCESSES, AND MARKETS NATIONALLY, LEADED AND LEAD FREE ZINC OXIDE, TALC, COPPER PRODUCTS, AND DECORATIVE STONE FOR INTERIOR-EXTERIOR USE. CHEMET PRODUCTS ARE USED IN THE PAINT, RUBBER, ANIMAL FEED, FERRITE, CERAMIC AND BUILDING INDUSTRIES, AND OTHERS. RECENT EXPANSION OF PLANT FACILITIES AND MARKET AREAS HAVE BOOSTED CHEMET SALES AND PROFITS

AT THE LEFT IS A SHOT OF THE BAGGING STATION FOR ZINC OXIDE, AT AMERICAN CHEMET'S EAST HELENA PLANT. THE ZINC OXIDE IS OBTAINED, AS A BY-PRODUCT, FROM AN ANACONDA COMPANY PLANT, ALSO LOCATED IN EAST HELENA. ON ARRIVAL THE MATERIAL IS BROKEN UP INTO FINE PARTICLES, BAGGED, AND MARKETING NATIONALLY, PRIMARILY TO THE PAINT AND RUBBER INDUSTRIES. THROUGH A NATIONWIDE NETWORK OF BROKERS





**For  
Financial  
Information  
About  
Montana  
Contact Us  
By Mail  
Or Telephone**



TWO VIEWS OF NEW CAPITOL HILL SHOPPING CENTER IN HELENA

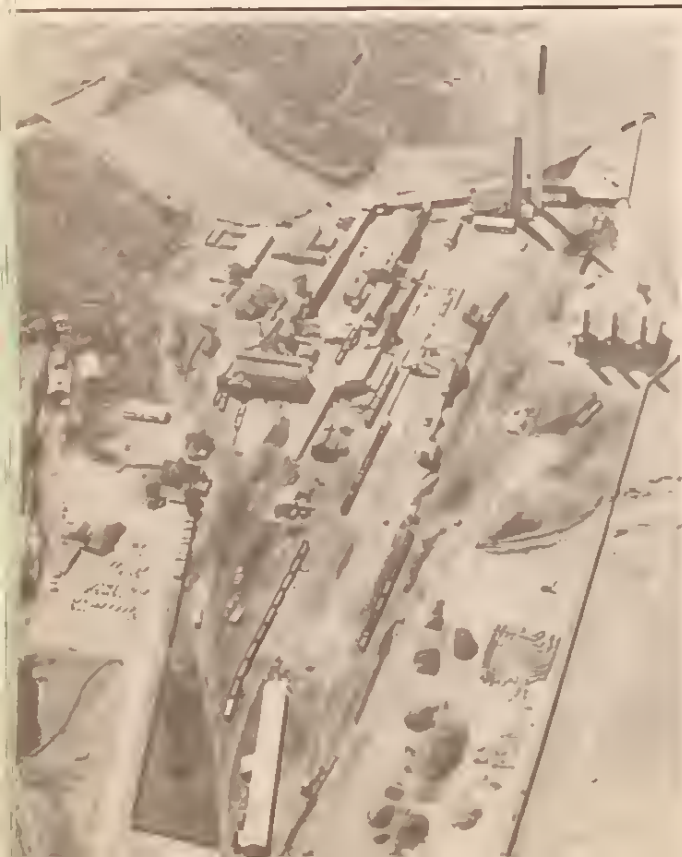
## UNION BANK AND TRUST COMPANY

HELENA, MONTANA

P. O. BOX 597 MEMBER F.D.I.C. PHONE 442-5050

**Banking, Industry and Commercial Centers  
Go Well Together in Helena . . . .**

New Shopping Center is Close to Holiday Texaco Service and One of Montana's Motel-Restaurant Complexes, The Holiday Motel and Jorgenson's Holiday Inn.



## ASARCO'S EAST HELENA LEAD SMELTER

EAST HELENA, MONTANA

Treating 20,000 tons of Material per month made up of lead concentrates, zinc residues, limerock, and siliceous ore.

The plant produces: 6,000 tons of lead bullion per month, 600 tons of combined copper matte and speiss, 9,000 tons of blast furnace slag which is delivered to the Anaconda Company's adjacent slag fuming plant—in addition, Intermittent shipment of concentrated blast furnace baghouse dust is

made to Asarco's El Paso plant for eventual recovery of contained metals.

The dominant commercially valuable recoverable metals are gold, silver, lead, copper and zinc although lesser quantities of rarer metals such as antimony, cadmium and bismuth are present. The East Helena Smelter is important to the north-west because it is an active market for lead, silver and gold ores and concentrates.

**HELPING INSURE THE MINER OF A PROFITABLE AND STEADY MARKET FOR HIS ORES**





## PRUDENTIAL REALTY, INC.

HELENA, MONTANA



D. F. Peterson, President  
MEMBER OF LOCAL, STATE AND NATIONAL  
REAL ESTATE BOARDS

**Commercial and Domestic Real Estate**  
**Ranches ★ Insurance**

32 WEST SIXTH AVENUE — DIAL 442-9230

LET US  
SHOW YOU  
SOME OF OUR  
QUALITY  
HOMES!

## QUALITY HOMES — INC. —

PRECISION CUT  
AND PRE-  
FABRICATED  
HOMES

OFFICE AND  
PLANT AT  
1109 BIRCH  
STREET  
HELENA,  
MONTANA

BELOW: OUR NEW 11,000  
SQUARE FEET SHOP AND  
STORAGE BUILDING  
WHERE WE PRODUCE  
CONTROLLED PRECISION-  
CUT PRODUCTS



ABOVE: LARGER EARLY AMERICAN STYLE—FOUR BEDROOM COUNTRY HOME



ABOVE: COMFORTABLE, TWO BEDROOM, BATH AND ONE-HALF  
WITH ATTACHED GARAGE



ABOVE: THREE BEDROOM MODERN HOME  
WITH FULL BASEMENT



WE CREATE HOMES — NOT HOUSES  
CUSTOM BUILT TO YOUR SPECIFICATIONS

## HELENA—Her Past and Future . . .

The date July 14, 1864, marked the beginning of another gold stampede that was to exceed that of Bannack, Grasshopper Creek and Alder Gulch. A party of four, headed by a Mr. John Cowan, unable to locate paydirt at Virginia City, started out and prospected in various places without success. Discouraged with their lack of luck they were about to give up when one of the party suggested a small gulch they had passed on the previous day be furthered explored. Cowan said, "This little gulch on the Prickly Pear is our last chance." Last Chance Gulch it became and so it is known to the present day.

By early fall, 1864, the gulch contained more than 100 cabins and it was decided that "Last Chance" was not a suitable name for the rapidly growing camp. A certain John Somerville dominated a meeting to decide upon a more dignified name, over-rode proposals to call the camp "Tonah," and obtained the adoption of Helena, the name of his home town in Minnesota. He pronounced it He-le'-na to rhyme with Lena. To the miners and bullwhackers, however, Hel spelled hell, and they accordingly shifted the emphasis to the first syllable and pronounced the name with the second "e" almost silent and Hel-ena has become the accepted pronunciation.

The city of Helena is a real attraction to the traveler because it has a background of adventure and romance that dates back to the gold rush days of 1864. In Last Chance Gulch gold-fevered placer miners plied pick, shovel and pan, wrestling from Mother Earth, fabulous sums. Here the bold outlaw and the suave gambler flourished, while hot quarrels and sudden death marked each milestone of the camp's progress until the Vigilantes, that secret, powerful organization, brought law and order out of chaos by rude, swift justice on the Hangman's Tree.

The Last Chancer, originated by H. S. Dotson, a past president of Helena Chamber, is one of the most unique trains in the world. It moves five times a day up and down Last Chance Gulch, the main street of Helena. Seated in four gold carriages pulled by a replica of an old engine, tourists inspect Helena's Moorish architected Civic Center; the narrow, winding street which is the Gulch (underlaid by gold-bearing gravel); the site of the discovery of gold in 1864; the Pioneer Cabin built in 1864-65; an old buffalo trail; the State Capitol and the Veterans' and Pioneers' Memorial Building which houses one of the finest historical museums in the west including the famous 1½-million dollar collection of Charles Russell paintings.

There are numerous other sights, including St. Helena's Cathedral, probably the most magnificent structure along the 1,500-mile parallel between Spokane, Washington, and the Twin Cities; the famous Union Bank gold collection, and the Old Fire Tower, believed to be the only one left standing in the U. S.

The train pauses along the Gulch so tourists may inspect the Old Brewery Theater where Broadway plays are produced during the summer months.

Today Helena is a beautiful city. The glamour of pioneer days still hangs over the city and the old western hospitality remains. Helena, with its stable economy, is the center of the state's financial, political, civic and social activities, and justifies her nickname, bestowed a century ago, "Queen of the Mountains."

2-WAY  
RADIO  
SERVICE  
CAR . . .

## HOLIDAY TEXACO SERVICE



1700 Prospect Avenue — Dial 442-9710

HELENA, MONTANA

TRAILER SALES

GOODYEAR

Jim Waddell, Proprietor

Trust Your Car to the Man Who Wears the Star

## SUPERIOR FIRE APPARATUS

Division of  
JACK'S FIRE EQUIPMENT  
HELENA, MONTANA

Factory and Offices at Joslyn and Leslie  
Dial 442-0745



ONLY CLASS  
A FIRE AP-  
PARATUS  
MANUFAC-  
TURER IN  
THE ROCKY  
MOUNTAIN  
REGION



PHOTOS SHOW PRECISION BUILT EQUIPMENT  
AT SUPERIOR FIRE APPARATUS, HELENA PLANT

Quality is Long Remembered After Price is Forgotten

The Only Fire Apparatus Factory in the U. S.  
At a High Altitude Location

Superior Fire Apparatus is Engineered and  
Constructed Under High Altitude Conditions  
Where Top High Altitude Performance  
Is a Fact — Not a Guess





Today and Yesterday — the present and historical past are inseparable in any state or region.

The past has special meaning in The Big Sky Country and explains why Montanans are on the move toward increased productivity in ALL fields.

Montanans realize that the graduates of its ever expanding system of higher education call for a greatly increased choice of worthy opportunities in our own state for our own students.

Publishing too, must step up its effectiveness and Production Surveys of Montana stands ready to help you or your organization prepare the necessary publicity to help you keep pace with this rapidly changing economy.

Why not write and tell us what you need?



ABOVE: GLACIER NATIONAL PARK IN MONTANA—"THE BIG SKY COUNTRY"

LOCAL  
STATE &  
REGIONAL  
SURVEYS  
—  
PUBLIC  
RELATIONS &  
PUBLICATIONS

## PRODUCTION SURVEYS OF MONTANA

1305 Fourth Street West — Kalispell, Montana

Area Code 406 — Dial 756-2475



### LOUNGE

The Viking Lounge, one of the most popular spots in Montana. It provides a delightful stop for expertly mixed drinks.

### EVERY MODERN CONVENIENCE

The Holiday Motel, as the accompanying pictures reveal, is a luxury motel (WITHOUT a luxury price tag) that offers every modern convenience. Words like "smart" and "cheerful" describe the guest rooms, which are furnished in the attractive good taste of contemporary styling.

Fishing, hunting, boating, golf and skiing are all within minutes of your colorful, comfortable Holiday Motel room.

This lovely motel is close to the state capitol and is on a direct route between Yellowstone and Glacier Parks. Adjacent to Capitol Hill Shopping Center.

Telephones and Radios  
Television  
Free Ice & Evening Paper  
Conference Rooms  
Sample & Display Rooms

Wall to Wall Carpets  
Individual Heat and  
Air Conditioning  
Ample Parking Space  
Bridal and Studio Suites  
Ceramic Tiled Baths

### BEAUTY

Breathtaking mountain scenery is visible from every window of every room. The Sleeping Giant is a famous landmark

**East Side of Helena, Montana--On  
Hiways 12-91-287 Between the Parks**



## STOP AT HELENA'S FINEST



# Holiday



### YOUR HOSTS

Invite you to spend a day, a week or a month at the Holiday Motel. With good reason, the Holiday is regarded as Montana's "smartest" residence-in-transit. You will be impressed with the friendly, Western hospitality. You'll be impressed, too, with the furnishings of the comfortable guest rooms.

**A LUXURY MOTEL AT POPULAR  
PRICES — WRITE OR WIRE  
THE HOLIDAY MOTEL, HELENA,  
FOR YOUR RESERVATION**







**FACTS AND HIGHLIGHTS OF HELENA, MONTANA**  
Helena, capital city of Montana, is nestled in Last Chance Gulch at an altitude of 4,100 feet.

**HISTORICAL MUSEUM**  
on the State Capitol grounds, is guided in its planning and execution by the Smithsonian Institution. It has a formal Charles M. Russell room.

**FRONTIER TOWN**  
Atop the Continental Divide 15 miles west of Helena. There is more of the Old West in Frontier Town than in some entire western states.

**BREWERY THEATRE**  
Ranks high in the nation for excellence in summer theatre production.

**"GATES OF THE MOUNTAINS"**  
was coined by Capt. Meriwether Lewis as he entered the gorge in 1805. This "Feat" of Nature is only thirty minutes from Helena. There are daily boat trips.

**THE LAST CHANCER**  
The Last Chancer Tour Train is a subdivision of Helena Unlimited, which is owned and operated by the citizens of Helena. It is a Jeep operated train that has four custom made cars painted gold for Last Chance Gulch. It is operated from June 15 through Labor Day and it makes five daily trips through historical Helena.

## MODERN LUXURIOUS RESTAURANT

Located in the center of Montana's industrial and agricultural communities, making it an ideal location for conventions and business meetings. Here you'll find the delicious food and excellent service of one of the West's finest restaurants.

At Jorgenson's you'll enjoy the hospitality for which Montana is famous. The warm surroundings and tasteful decor combine to make your meals—and your stay, completely enjoyable.

**THIS FINE RESTAURANT** features family style dining at prices anyone can afford. Open 6:30 a. m. to 10:00 p. m.

6:30 a.m. to 8:00 p.m. Sundays & Holidays

Serving

Breakfast—Lunch—Dinner

**ASK FOR INFORMATION** about the excellent meeting, reception and banquet room facilities.

**A FINE RESTAURANT WITH FOOD  
AND HOSPITALITY YOU CAN ENJOY  
AIR CONDITIONED FOR YOUR  
COMFORT**

## YOU'LL ENJOY & REMEMBER

*Jorgenson's*

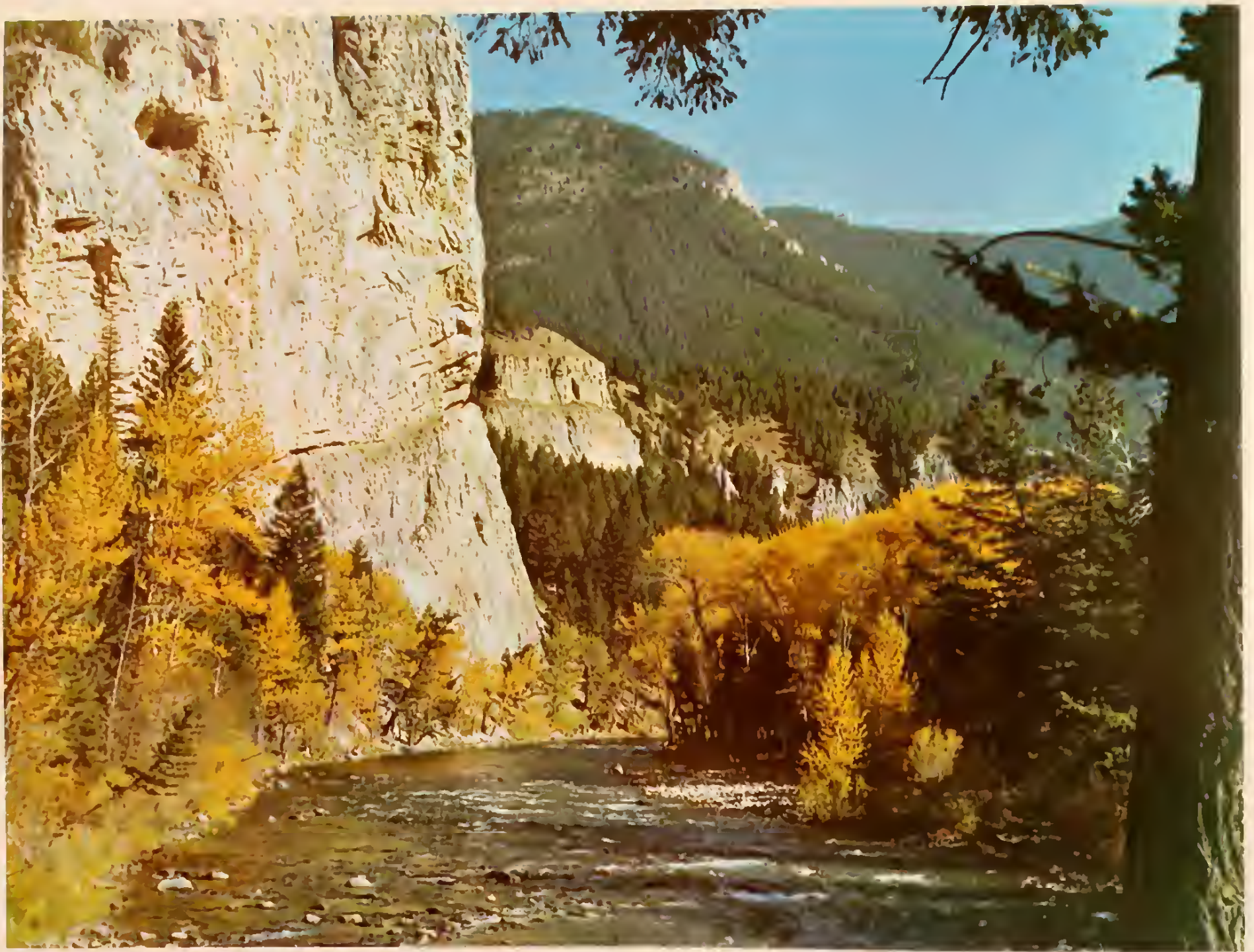
**HOLIDAY INN**

## FINE FOOD — DELIGHTFUL SURROUNDINGS

Jorgenson's new, tastefully decorated, spacious restaurant with ample parking space for scores of cars—is a natural center for vacationer, business visitor or convention-er. The attractive, air conditioned banquet room makes Jorgenson's a popular place for local, state and regional gatherings of almost any size from small, local committee meetings to large, state-wide conventions. Try Jorgenson's the next time you plan a Helena luncheon or banquet meeting.







FALL SCENE TAKEN IN MONTANA'S BEAUTIFUL GALLATIN VALLEY BY AWARD WINNING MANHATTAN PHOTOGRAPHER OLIVER H. CAMPBELL





ABOVE: MODERN EQUIPMENT ASSURES YOU OF PROMPT, ACCURATE SERVICE

**60 YEARS  
OF SERVICE TO THE PEOPLE  
OF GALLATIN COUNTY**

## *Manhattan State Bank*

**MANHATTAN, MONTANA  
SINCE 1905**

**A Locally Owned — Independent Bank**



The Manhattan State Bank was organized in 1905 by a group of 22 stockholders, most of whom were from families of early settlers in the area. B. F. Gibson was the first president, while Harry Thomas was cashier and managed the day to day affairs of the new bank. Initial capital was \$25,000.00. A frame structure in the block west of the present building housed the bank from 1905 to 1916, when fire forced the bank to move. The old minute book carefully notes that rental on this first building would be \$35.00 per month, with the bank to furnish its own heating equipment. The present banking house was built in 1916 and extensively remodeled in 1954. L. D. Moritz, still a Manhattan resident, was associated with the bank for the greatest number of years of any one person, having first been employed in 1918. He later managed the bank for a number of years and was president upon his retirement in 1952. Present management has been with the bank for more than a dozen years, having formerly been associated with the Commercial National Bank in Bozeman.

BELOW: DROP IN AND MEET THE FOLKS AT OUR FRIENDLY BANK



LEFT:  
W. W. FENNO  
PRESIDENT  
19 YEARS OF  
BANKING EXPERIENCE, THE LAST  
13 YEARS WITH  
MANHATTAN  
STATE BANK



RIGHT: NORMAN  
MULDER, VICE  
PRESIDENT  
18 YEARS OF  
EXPERIENCE,  
THE LAST 12  
YEARS WITH  
MANHATTAN  
STATE BANK

**A  
LOCALLY  
OWNED  
INDEPENDENT  
BANK**

**AN EXPERIENCED, FRIENDLY STAFF TO SERVE YOU**

GEORGIE WELTHOUSE  
ASSISTANT CASHIER  
SIXTEEN YEARS SERVICE

MARIANNE KRUDDE  
TELLER  
TWELVE YEARS SERVICE

JOYCE SEEMAN  
TELLER  
TEN YEARS SERVICE

MARGARET TOWNSEND  
TELLER  
SIX YEARS SERVICE

CAROL HAUGEN  
BOOKKEEPER  
SIX YEARS SERVICE

LOIS CHANEY  
BOOKKEEPER  
THREE YEARS SERVICE





# Churchill, Montana

## A COMMUNITY JUSTLY PROUD OF ITS SCHOOLS AND CHURCHES

The Christian Reformed Churches on Churchill, some seven miles south of Manhattan, date back to the turn of the century. The first, or Manhattan Christian Reformed Church, was organized on June 22, 1903. At that time, men and women committed to the Bible's truth as articulated in the historic Reformed Confessions joined in a unity of fellowship

that has been developed and expanding ever since. Nineteen families and five individuals constituted the original congregation of 1903. Today the original congregation still numbers 135 families, with over 600 souls, having given birth meanwhile to three daughter churches, one in Bozeman, one in Gallatin Gateway, and a second on Churchill. These number over 1,100 souls combined.

The churches and schools in the community offer a complete youth program for educational and social development. The program is geared to produce God-fearing and loyal citizens, while it prepares them to assume the responsibilities of life lived in the twentieth century.

The Manhattan Christian Schools located at Churchill began in the 1920's, although complete high school education was not offered until the mid-1950's. The schools, although religious in basic commitment and broad purpose, are not parochial (established and controlled by a church). They are private - parentally established and controlled. The board of directors is elected from an incorporated society of parents interested in providing education based upon the enduring teachings of the Bible.



The old, large, white church that dominates the landscape was dedicated February 12, 1911. This church had the renown of being the largest rural church west of the Mississippi. The Bethel Church was dedicated February 11-12, 1964, and facilitates the religious worship and life of the second congregation on Churchill. The sanctuaries of these two churches, which hold over 600 worshippers each, are well filled at each of the four services held each Sunday. It is obvious not only on Sunday that the people who attend these churches have the high ideal of serving and glorifying God, this is reflected in their homes, their schools, and daily vocations.



The present enrollment in the elementary school is 300; in high school, 150. The operating budget for the year 1965-1966 is \$150,000.00. The school buildings have all been built within the last 15 years and have a value of \$500,000. The school serves an area with a radius of 25 miles, with a bus system. The total staff includes 2 principals, 20 full-time and 4 part-time teachers.

God in His good providence has blessed this community settled among the western rolling hills of the Gallatin Valley, and its religiously committed people have sought responsibility to serve God with integrity and industry. Among the many good places to live in the great country we call America, and more specifically, in the great state we call Montana, this is one of them!





# Dyksterhouse Construction & Amsterdam Lumber Company

AL DYKSTERHOUSE & SONS JAKE AND HENRY

BUILDING QUALITY HOMES FOR

BETTER LIVING THROUGHOUT THE AREA

Everything For Construction Purposes Available at Our Amsterdam Lumber Company, Located in Churchill—Address Manhattan, Montana

RESIDENTIAL — COMMERCIAL — LIGHT INDUSTRIAL — REMODELING  
CABINET WORK

MR. & MRS. AL DYKSTERHOUSE, SONS JAKE AND HENRY, AND DAUGHTER COBA SINNEMA.  
WELCOME YOU TO THE GALLATIN VALLEY

THE DYKSTERHOUSE FAMILY HAS  
BEEN IN THE AREA CONSTRUCTION  
BUSINESS FOR 18 YEARS  
BUILDING SATISFACTION INTO  
EVERY JOB DONE

A COMPLETE LINE OF BUILDING  
MATERIALS FOR YOUR SELECTION  
AT OUR LUMBER YARD



ABOVE: RANCH  
HOME ON TOWN-  
SEND HIGHWAY  
BUILT TEN YEARS  
AGO

LEFT AND LOWER  
RIGHT: LIVING  
ROOM AND EXTER-  
IOR OF PARSONAGE  
COMPLETED 1965

TOP RIGHT: FIRST  
HOME BUILT BY US  
18 YEARS AGO ON  
BOZEMAN HIGHWAY

SECOND FROM TOP  
RIGHT: DOCTOR'S  
HOME ON  
BOZEMAN HIGHWAY

THIRD FROM TOP  
RIGHT: THIS IS THE  
REMODELED HEBB  
SCHOOL WHICH IS  
NOW SON HENRY'S  
HOME





INTERNATIONAL  
HARVESTER

# KAMP

**IMPLEMENT CO.**

THOMAS J. KAMP

A HALF CENTURY OF SERVICE TO MONTANA RANCH-  
ERS & FARMERS — ESTABLISHED BY JOHN T. KAMP

NEW AND USED EQUIPMENT

AMSTERDAM, MONTANA — MAIL ADDRESS MANHATTAN. MONTANA



ABOVE: MODEL 504 FARMALL WITH ANOTHER MODEL  
APPEARING AT RIGHT

**SERVING SOUTH-CENTRAL  
MONTANA**

With Complete Lines of Light and  
Heavy Agricultural Machinery

A CORDIAL WELCOME IS YOURS  
DROP IN AND SEE WHAT WE  
HAVE TO OFFER



ABOVE: THOMAS J. KAMP WITH A CUB-CADET ILLUS-  
TRATES THE TREMENDOUS RANGE OF AGRICULTURAL  
EQUIPMENT SOLD AND SERVICED BY KAMP IMPL-  
EMENT COMPANY

**SALES and SERVICE**

Built an decades of continuous  
full service has enabled us to  
build an enviable reputat on  
among farmers and ranchers  
over a wide part of Montana

**BOOST OUR NO. 1 INDUSTRY  
AND YOU BOOST MONTANA**



LEFT:  
THOMAS J.  
KAMP SEATED  
ON INTERNA-  
TIONAL HAR-  
VESTER 403  
COMBINE

RIGHT:  
MODEL 201  
INTERNA-  
TIONAL HAR-  
VESTER  
WINDROWER  
PICTURE  
TAKEN ON  
ALBERT  
BOLHIUS  
RANCH

104







BEAUTIFUL FRONT ENTRANCE TO MANHATTAN HIGH SCHOOL

## AREA SCHOOLS AMONG FINEST IN STATE

officially by state authorities, "There is no school system in Montana the whole northwest which has a more beautiful school plant and grounds than has Manhattan." A large high school building and a modern school building located on a 14-acre campus of fine lawn and shade trees. The four year high school is fully accredited. Many school buses support the students to this local school facility where schooling is thorough and environment wholesome. The high school boasts a fine indoor swimming pool. Many local, county and state organizations have used the school site for special meetings and picnics.

This Page on  
Area Schools  
Made Possible  
by  
THOMAS J.  
KAMP OF  
KAMP IMPLEMENT CO.  
of Amsterdam

GOOD  
SCHOOLS IN  
GOOD COMMUNITIES  
ASSURE  
GOOD  
FUTURE  
CITIZENS

RIGHT: 1965 GRADUATING CLASS AT MANHATTAN CHRISTIAN SCHOOL

ROW 1—SNARON VISSER, CAROLE DE GROOT, KAREN LUCAS, THA HUTTINGA, CAROLYN KAMERMAN, HELENE FLIKKEMA, REGARET COLE, JANICE DYK, JOYCE DROGE.

ROW 2—SUZANNE VELTKAMP, ELAINE BOLHIUS, CAROL DE GROOT, LOIS YPMA, IRENE VELTKAMP, LORETTA KAMPS, JANICE KAMPS, KEITH FENNEMA, RONALD COX, TERRY VANDERBY.

ROW 3—RICHARD WESTRA, ALLEN DYKSTRA, RONALD BOS, JOE KAAKMA, WAYNE DANHOFF, TONY VISSER, DONALD MEYS.

ROW 4—WILLIAM VAN DYKEN, LARRY VELTKAMP, JERRY LEEP, HARRY EMMELKAMP, ROBERT POELMAN, JOHN MOLENDYK, ELON VAN DYKEN, JOHN BROUWER, TERENCE TRIEMSTRA.



LEFT: PLAYGROUND AT MANHATTAN CHRISTIAN SCHOOL AT CHURCHILL  
RIGHT: AMSTERDAM ELEMENTARY SCHOOL AND TEACHERAGE AT AMSTERDAM



MANHATTAN CHRISTIAN SCHOOL LOCATED IN THE COMMUNITY OF CHURCHILL — A COMPLETE GRADE AND HIGH SCHOOL FOR THE SURROUNDING COUNTRY



ABOVE: MANHATTAN HIGH SCHOOL CHAMPIONSHIP TEAM IN ACTION. THE PLAYGROUND AND ATHLETIC FIELD IS PERHAPS THE MOST BEAUTIFUL IN MONTANA







AIR VIEW OF NOOKREST DAIRY FARM 1½ MILES NORTHWEST OF AMSTERDAM

# NOOKREST HOLSTEINS

**JOHN DYKSTRA & SON**  
 AMSTERDAM, MONTANA      MAIL ADDRESS      MANHATTAN, MONTANA

(DAD)  
JOHN DYKSTRA

(MOTHER)  
PEARL DYKSTRA

(DAUGHTER-IN-LAW)  
LORRAINE DYKSTRA

(SON)  
DONALD DYKSTRA



SON PETER DYKSTRA  
WITH MANHATTAN  
MACHINERY COMPANY

DOROTHY DYKSTRA  
BOOKKEEPER  
BELGRADE STATE BANK

LOIS DYKSTRA  
SENIOR AT MANHATTAN  
CHRISTIAN SCHOOL

DAUGHTER PHYLLIS  
MRS. BURTON DOZEMA  
MADISON, WISCONSIN



## MONTANA'S FINEST REGISTERED HOLSTEINS

A Quarter  
Century of  
Holstein  
Breeding . . .  
120 Acres  
Devoted to the  
Raising of Hay,  
Corn and Silage  
and Champion  
Caliber  
Holsteins

PARTICIPATING IN  
ALL MAIN MONTANA  
CATTLE SHOWS  
ALL OF THE DYKSTRA  
CHILDREN ATTENDED  
MANHATTAN  
CHRISTIAN  
SCHOOL

THE DYKSTRAS  
WELCOME YOU  
TO MONTANA'S  
DAIRYLAND . . .



ABOVE: GLENAFTON RAG APPLE DYNAMO A 1463804  
VERY GOOD B7 — TWO YEARS



ABOVE: NOOKREST ISABELLE BESS 4867820 VERY GOOD B9—SIX YEARS

BELOW: NOOKREST  
PASTURE SCENE





# MONTANA'S FAMOUS DAIRY CENTER . . .

The Beautiful Gallatin Valley  
Where a Hefty Per Cent of the  
State's Quality Milk is Produced . . .



ABOVE: PHOTO TAKEN ON THE BRIDGER HOLSTEIN FARM  
SIX MILES UP BRIDGER CANYON FROM BOZEMAN



ABOVE: MILKING SCENE AT M. S. U., BOZEMAN, MONTANA

**QUALITY ALL THE WAY! IN MONTANA'S DAIRYLAND!**



LEFT: PHOTO TAKEN ON THE TODD JERLAY FARM  
NEAR BOZEMAN



## GALLATIN DAIRY SUPPLY

ROUTE ONE — BOZEMAN, MONTANA

Wilbur Visser — Dial 586-9305

### BOU-MATIC MILKERS

Proud to be a part of Montana's ever expanding dairy  
products industry.

**SERVICE ANYWHERE — EVERYTHING FOR THE DAIRYMAN**



BEAVER  
CHEMICALS

LET US SHOW  
YOU ANY OF  
OUR MODERN  
INSTALLATIONS



Visiting Dairymen Will Always Find  
The Welcome Mat Out on Our  
Many Modern Dairy Farms  
In The Gallatin Valley

Photos on this page courtesy of Gallatin  
Dairy Supply

BELOW: HOLSTEINS GRAZING NEAR AMSTERDAM  
ON THE BOS BROTHERS FARM



## AGRICULTURE

### By Cooperative Extension Service Montana State University, Bozeman

Agriculture in Montana stands tall.

Under the Big Sky, agriculture is undisputed financial king of all enterprises. Outside the state, it compares with others as a high-ranking prince of production.

Within the framework of total U.S. wheat production, for instance, Montana ranks third or fourth, year in and year out. In barley, it ranks third, sugar beets, eighth; alfalfa seed, sixth, crested wheatgrass seed production, first, cattle numbers, 12th (but seventh in cow-calf numbers), and sheep numbers, sixth.

In addition, Montana also raises dry beans, red clover seed, potatoes, corn, flaxseed, mustard seed, sweet and sour cherries, and other crops that advertise Montana's reputation as a name-brand state.

Inside Montana, agriculture is far-and-above the top income producer of them all. Its cash register rings loudest in the state. Total farm income for 1964 was \$404 million. It has climbed to \$475 million in other years. This revenue is almost as large as the \$234 million income derived from manufacturing sources; and the \$205 million from mining; almost three times the \$150 million intake from tourism, far and away ahead of the \$80 million of the lumber and forest products industry, and over six times the \$75 million the oil industry pours into the state.

The agricultural community may also be characterized by its "get up and go." It has high standing, influence, but it is restless and it wants growth for the state. Seldom before, if ever, has agriculture shown such a keen desire as it does now in seeing new industrial growth enter urban and rural areas.

In many counties, farmers and ranchers are also members of civic clubs and chambers of commerce. They are active in formulation of many community projects, and they help cement farm-town relations.

In addition, many farmers and ranchers are forming, along with other citizens, new organizations. These organizations are multi-named but their equal aim is total resource development. They inventory local resources, then discussion and analysis follows, and then ways and means are sought for the entire community to plan and develop these resources.

It'd be a mistake, however, to describe the strength of Montana's agriculture without describing the basic crisis it shares with agriculture throughout the entire U.S. King Agriculture in the Big Sky country wouldn't be as dynamic, if it didn't face up to this crisis. It is a financial and psychological crisis.

On the one side, the agricultural situation is excellent as preceding statistics have shown. Farms are increasing in size, due to enlarged management skills . . . yields are pushing to new high . . . and farmers and ranchers live better than ever.

But caught up in the cost-price squeeze farmers, as individuals, have to increase efficiency . . . increase production per acre and per animal unit . . . or else suffer the burden of high costs of production.

At the same time farmers, as a group, must try to keep supply in line with demand . . . decrease production per crop . . . or else suffer the disaster of over-production.

In Montana, this dilemma has not yet been solved, just as it hasn't been solved anywhere in the U.S. But it still doesn't confound the belief that great opportunities await the agricultural community, and that many enterprises are still begging for development.

#### THE LAND AND THE PATTERNS

Montana is a mighty vastness of 93.6 million acres. It is the fourth largest of the 50 states.

It is second largest, however, in acres of farmland. Usable range, pasture and cropland account for 67 million acres. Of this domain, 15 million acres are used for cash crops, with some two million acres classified as irrigated. On these irrigated lands clear water trickles across green alfalfa fields in the summer months, and shows up glinting between rows of sugar beets, feed grains, dry beans, silage corn, flax and potatoes.

The principal dryland crops are wheat and barley.

The rangelands are grazed principally by cattle and sheep whose numbers convert grass and forbs into red meat for the growing U.S. population. These pastures, as well as the dryland wheat and barley farms, are vast but manageable, and in this sense the soils are friendly.

The soils of Montana are grouped roughly into three geographical areas. To the north of the Missouri River and east of the Rockies the soil is formed on glacial till of continental origin. It is generally dark brown on the surface with excellent water-holding capacity — an advantage for the dryland wheat farmer.

South of the Missouri River, the soils are generally formed from local rock, and lighter colored than the northern area. It too grows excellent wheat and barley, but the ranches here are generally larger and used more for pasturing cattle and sheep.

In western Montana, the soils are highly variable due to abrupt changes in elevations, geology and climate within short distances. In the valleys between the mountains the soils are similar to those of the cool desert regions.

#### OWNERSHIP PATTERN

The ownership pattern of this vast domain — 93.6 million acres — is similar to the pattern of the nearby intermountain states. Federal-state ownership is approximately 35 percent of the total, and administration is under the Forest Service of the USDA, the Bureau of Land Management, U.S. Department of the Interior, and the Bureau of Indian Affairs.

Why some lands are administered by the federal government can be attributed to 1) the setting aside of large tracts for Indian reservations and 2) the "unfitness" of many lands in the early part of this century for home-steading by early settlers.

It would be a mistake, however, to conclude that Federal-State administered lands are out-of-bounds, or withdrawn, from private use. These are not. Timber, recreation, grazing, mining, are only some of the multiple uses that private groups and individuals derive from these government lands.

#### FARMS AND INCOMES

Montana's response to the challenges of our times is shown, in part, by the adjustments made in the number and size of farms this last decade. It is a dynamic adjustment, and seemingly contradictory.

In 1945 there were 40,800 farms in Montana. In 1963, this number diminished to 30,400, about a 25 percent decrease. But as farm numbers have decreased, farm sizes have increased from an average of 1,550 acres in 1945 up to 2,194 acres in 1963. Undoubtedly, the 1965 agricultural census will show a further reduction in the number of farms.

What has happened is that the farmers and ranchers who remained on the land have taken over lands of those who have left for other occupations.

The result is that total farm income has increased since 1955 at an average annual rate of \$2.5 million. Average net income per Montana farm has also climbed during this same period, achieving a rank of fourth in the U.S. with \$4,667 in 1962.

#### EDUCATION AND RESEARCH

Montana State University at Bozeman uses three "arms" to carry and deliver the latest advances of agriculture to farmer-ranchers in the state. These are the Cooperative Extension Service, the Experiment Station system, and the College Division of Agriculture.

The Extension Service — whose basic role is to inform its citizenry of the activities of the other two university arms, and also worthy activities from anywhere — performs its function through the use of county extension agents in 52 counties, and a state staff of outstanding specialists. These specialists are often featured in a variety of magazines. They also prepare bulletins and circulars, hold meetings and tours for farmers in fields and feedlots often under advisement from county agents or commercial companies. In recent years too, the Cooperative Extension Service has found that its services, by demand of the urban population and others, have grown to include such diverse subjects as rural sociology, industrial feasibility studies, and community planning.

The research activities are carried out by the university's six branch experiment stations and the main experiment station at Bozeman. The entire system is called the Montana Agricultural Experiment Station. Research under this system ranges over the entire area of agriculture — from the use of antibiotics, pesticides, soil physics and chemistry to the study of grasses and legumes, grains, and other irrigated crops. Two government-supported research stations are also located in Montana. One of these concentrates on livestock and range improvements, and the other on the inter-relationship of soil and water.

The entire system — extension, experiment and teaching faculty — is directed toward the continuing solutions of agricultural problems and whatever other problems that segments of the population desire.

#### THE LIVESTOCK

On January 1, 1964, Montana's reputation-brand cattle numbered 2,674,000 head . . . a 15 percent increase over the preceding year, and a new all-time high.

The 1964 calf crop was 1,271,000 — a seven percent increase over 1963, and the highest rate of increase of any of the 50 states.

These statistics reveal, among other things, that Montana cattlemen are excellent managers and that feeding facilities are abundant and of superb quality. Total 1963 income from cattle was \$186 million.

Oddly enough, the fattening of these range produced cattle for market is a trifling as compared to the marketing of calves, steers and heifers to feedlot operators in other states.

Historical patterns are sometimes difficult to change, and Montana is traditionally accustomed to selling cattle off the range to feedlot operators elsewhere.

For instance, Iowa has averaged purchasing over 30 percent of the calves for the last five years — and finding it profitable to transport Montana cattle to fatten on their cornfields. Illinois is the second largest purchaser, with half as many calves as Iowa. Other important states include Minnesota, Wyoming and Nebraska. Steers and heifers had a similar pattern, with the addition of Washington, which was the most important state in the purchase of Montana steers.

#### SHIPMENTS OF LIVESTOCK OUT-OF-STATE, 1958-63

Year	Country Shipping Points	Montana Markets	Out-of-State Markets	Total
		(Percentage)		
1958	58.9	32.4	8.7	100
1959	52.2	36.3	11.5	100
1960	57.7	33.8	8.5	100
1961	58.0	34.2	6.2	100
1962	62.2	32.7	5.1	100
1963	60.9	33.5	5.6	100

In all, approximately 1 million head of cattle are sold each year to buyers in other states in the cattle-finishing business, who in turn sell to packers.

Therefore, cattle feeding as a developing enterprise shows promise of adding income and employment to Montanans. Feed is plentiful, and some tests have revealed that barley ration is every bit as economical as corn for fattening cattle. The final meat product is also as satisfying to our increasingly knowledgeable consumer.

Cattle feeding has not yet increased in Montana at the pace that many consider possible. Fed cattle numbers for 1959-64 are shown in the following table.

#### MARKETING OF FED CATTLE, MONTANA

Year	Number Fed and Marketed
1959	99,000
1960	115,000
1961	113,000
1962	100,000
1963	98,000
1964	130,000 estimated

While this number is not significant within the total volume of cattle marketing in Montana, the 30 percent increase from 1963 to 1964 points to things to come.

Most cattle feeding, to date, is concentrated in Billings and Great Falls areas, with some additional feeding on the irrigated farms in the lower Yellowstone valley. Other feedlots are scattered throughout the state. There are 600 cattle feeders in Montana, but only 26 of these have a feedlot capacity of over 1,000 head.

#### SHEEP

Montana's wool production for 1964 approximated 13.5 million pounds. Income produced by this "side" crop was \$7,394,000. This brought Montana to fifth-rank in the U.S. in the production of wool.

In addition, on Jan. 1, 1964, sheep numbers totalled 1,583,000, for sixth rank in the U.S. The value of these sheep approximates \$30 million.

A major reason for the size of Montana's sheep population is the size of the ranges and the excellences of the succulent forbs and grasses during the grazing season. However, the trend has been away from large range operations with their several bands of sheep, to smaller and smaller farm flocks. This has reduced labor needs — which has become something of a problem to the sheepman.

Lamb fattening has declined somewhat with the rise of farm flocks operations. Range operators used to sell feeders but the rise of farm flocks has made feeder lambs less available for sale, since lambs grown under farm conditions are usually fed at home.



However, should U. S. per capita consumption of lamb and mutton rise above 4.5 pounds per year, Montana would undoubtedly venture more heavily into lamb feeding, as well as into a further increase in sheep and wool production.

Most of the wool that is produced in the state is marketed through wool pools which are organized by sheep producers at local level. Lambs are also sold sometimes through pools — which has the advantage of bringing together more buyers to one area to bid against each other for larger quantities of lambs.

## SWINE

Annual swine production has increased slightly to 171,000 with a farm value of over \$4 million. Most of these are pigs under six months of age. Gross income from hog production in 1964 was about \$10 million.

Most of the swine that are now produced in Montana come from rather large-scale operations that are carried out under modern facilities. Swine are marketed locally and in large cities in the western states, primarily Spokane and Portland.

Interestingly enough, Montana production of hogs is not enough to feed its own population, and hogs are imported by packers to round out the local demands.

This points to an immense opportunity for the industry. Barley makes an excellent hog feed, and Montana State University extension specialists have shown that the corn-hog ratio of the midwest is not as good economically as the barley-hog ratio of Montana.

In addition to the unfulfilled needs of the population from locally grown sources, some 600,000 head of hogs are transported from midwestern states through Montana to the metropolitan areas of the northwest and west coast. Montana could easily market this many additional hogs to the same markets, at a lower feed cost and at a lower cost of transportation. California alone imports over 5 million hogs a year.

The important need for development of this industry is to have operators who are willing to adopt new technology and to have necessary capital for successful operations.

## DAIRY

The dairy industry in Montana is healthy, modern, but limited due to the lack of large, fluid milk marketing centers. Dairy cow numbers have declined — just as they have throughout the entire U. S. — but production has gone up as herds have been genetically upgraded, and feeding has become more scientific. Currently, there are 70,000 dairy cows in the state.

Dairies are as modern in Montana as anywhere in the U. S. with herringbone milking parlors, pipeline and bulk tank systems, and milk meters attached to the units.

Stress on sanitation and high quality products has forced the smaller producer out of business, and made it necessary for dairy producers to make larger investments in their facilities. Herds are therefore larger, but DHIA records proudly proclaim that Montana dairymen are knowledgeable as well as skillful in the handling of these larger herds.

However, some dairy products are still being shipped into the state, particularly manufacturing milk products.

## WHEAT

Wheat shares with cattle the repute of large money-makers for Montana. The value of the total 1963 wheat crop is estimated at \$165 million. While total 1964 statistics haven't been computed yet, the size of the crop exceeded even the 1963 wheat crop, with the 90.8 million bushels harvested.

Thus, yields go up and up . . . and the state average is now set at 24.5 bushels per acre — a tribute to the state's weather, soil, the know-how of its farmers-ranchers, and a credit to the college extension and research teams who work constantly at upgrading quality and the use of top-notch seed. Nitrogen and phosphorus are also applied liberally.

The winter wheat crop for 1963 was the largest in 55 years . . . going up to a whopping 49 million bushels. Spring wheat totalled over 36.6 million bushels. The northeastern and eastern sections of the state produce most of the spring wheat while winter wheat is produced in most other areas with heaviest production in the north-central and south-central areas.

Montana's wheat crop, third or fourth ranking in the U.S., is in great demand by millers and cattle feeders from other states, predominantly a hard wheat with excellent milling qualities — about 75 percent of the winter wheat acreage is seeded with Cheyenne, 10 percent with Karmont, 7 percent with Itana. Protein content is high.

The durum wheat crop — used for the spaghetti-macaroni trade — was exceeded only by North Dakota in the nation. Leading varieties of durum in 1963 were Langdon with 42 percent of the total; Stewart with 22 percent, and Wells, 18 percent.

The spring wheat crop — the second largest of that produced in all states — is headed by the variety, Thatcher, 39 percent of the total; Chinook, 17 percent, and Centana, 10 percent.

## BARLEY

Montana barley enjoys an enviable reputation among livestock feeders throughout the western states. Its high protein quality and digestibility makes it a desirable feed for cattle finishers in small and large feedlots.

In addition, as a hog feed, Montana State University extension specialists have stated that it is more economical per pound of gain than the highly-touted midwestern corn. This means that it is a superb source of feed, and in abundance, for the anticipated expansion in livestock feeding in Montana.

Barley acreage in the state has steadily increased . . . primarily due to the shifting of wheat acreage under government programs to barley. In 1962, barley was produced on 1.9 million acres. In 1963, production declined somewhat to 1.5 million acres. Even so, Montana ranked third in the U.S. with 44.6 million bushels. Leading varieties are Compana, with 63 percent of the acreage, Betzes (a malting barley tested and released in 1957 by the Montana State University Experiment Station), on 21 percent, and Unitan, 6 percent.

Betzes barley is grown principally on the Sun River Project in Teton county, and in Pondera and Gallatin counties.

In recent years too, exporters to Asiatic countries have also grown to favor Montana barley.

## HAY PRODUCTION

Montana farmer-ranchers harvested a record back-breaking 3.5 million tons of hay in 1963. Total value of this crop is placed at \$64 million. Alfalfa hay accounted for approximately 2 million tons, with the rest in wild grass, timothy, and clover.

Hay acreage doesn't vary much from year to year. Cattle producers try to put up a fixed amount each year for wintering their cattle and sheep, and irrigated farmers need alfalfa for crop rotation practices. Phosphorus is a necessary fertilizer for the successful growing of this crop.

Montana hay is generally of top-quality, high in protein content, and "strong" enough so that in many cold areas, no more than one to two tons is needed to winter a cow and calf.

Hay acreage is normally about 2.3 million, of which 1.2 million acres is irrigated land.

Because of its abundance, several alfalfa pelleting plants have been established in the state. Industrialists and economists say that more such plants have a place in the state, both for local consumption and also for export to other states and countries.

The major users of hay are those who winter cattle and sheep. But hay is produced in every county — not always in direct proportion to local livestock needs. Thus, hay movements are customary from surplus areas to less fortunate areas, hit perhaps by drought, or by severe winter conditions.

## SUGAR BEETS

The output of sugar beets went to an all-time high in the 1963 growing season. The crop totalled 1,170,000 tons, with an average yield of 17.8 tons to the acre throughout the entire state.

The acres of sugar beet production are restricted by marketing quotas established by the U. S. government for the sugar beet companies. In turn, these companies, based on their industrial plant facilities, allocate acreages to individual farmers.

In the past ten years, the acres in production of this valuable irrigated crop has climbed from 55,000 to over 66,000. At the same time, yield per acre has climbed from 12.6 tons in 1954, to 17.8 tons in 1963.

The gross value of this crop in 1963 was well over \$11 million. By-products have a high value too as a livestock feed. Green tops, if not plowed under, are readily eaten by sheep or cattle in the fall, and from the factories wet and dried beet pulp are hauled eagerly to livestock at the farm.

The opportunity for expansion of sugar beets is primarily dependent on future foreign trade agreements. Should a great expansion ever be authorized, sugar beet companies would increase plant and building capacities.

## POTATOES

Potato growing is a minor crop, but it accounts for about 20 percent of the gross cash income produced by crops raised in the western part of the state. Montana seed potatoes are widely known, as are its russets sold for eating purposes.

In 1963, western Montana raised over 1.39 million hundredweight of potatoes with a value of \$35 million. Yields averaged over 180 bags (hundredweight) to the acre.

## OTHER CROPS

Oil and seed crops, though minor in comparison to wheat, cattle and other higher-priced cash crops, make up a composite group that adds millions of dollars to the agricultural income. And should the market demand for many of these minor crops listed below increase greatly, Montana farmers could easily make a transition from current cropping practices.

Flaxseed production dropped from 157,000 acres in 1954 down to 36,000 acres in 1963. Even so, this crop provided the northeastern and northcentral parts of the state with an additional \$833,000 income. Some flaxseed is also produced in the southeastern part of the state.

Mustard seed is also raised on northcentral Montana dryland, adding between \$5-\$1 million to farmers' incomes. On 42,000 acres, farmers produced over 14 million pounds of this seed in 1963.

Safflower seed production has proved to be a substitute crop for barley on many dryland farms — particularly in eastern Montana. Approximately 50,000 acres were planted to safflower in 1964.

Average yield of this oil-bearing crop was 750 lbs. to the acre in 1964. Over \$1 million income was derived by farmers that year.

A processing plant for safflower exists at Culbertson, in the northeastern part of the state.

Dry beans — raised primarily on irrigated row cropland in Montana — adds another \$1,340,000 to the state. Yields are quite good, over 17 sacks to the acre, and it has a value in being an additional crop for rotations on southcentral Montana irrigated lands.

Sweet and red clover seed production adds another \$.5 million to the income. Most of the red clover seed produced in 1963 was certified, and went to producers in other states.

Alfalfa seed production is not actually a minor crop, for it is often a side effort of farmers and ranchers who produce alfalfa hay for feed purposes. In 1963, production was 114 million pounds, cleaned basis, with a value of \$1,000,000. This record production put Montana in sixth rank in the U. S.

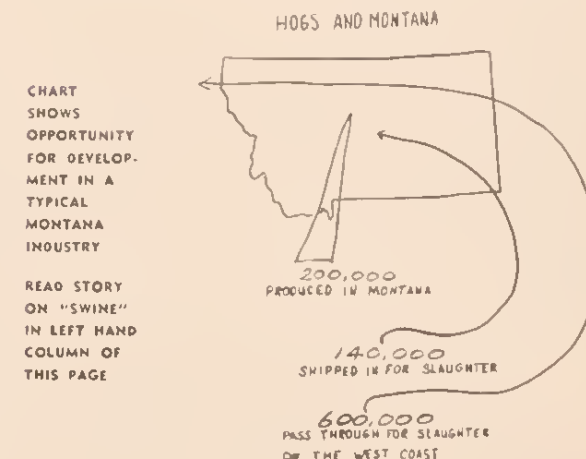
Crested wheatgrass is perhaps the world's greatest dryland "wonder" grass. It is used by ranchers in semi-arid deserts, and does extremely well in areas of low rainfall, even so low as seven inches per annum. Montana raised almost 1 million pounds of clean seed of this species in 1963, a sharp drop from 1962 production, but still high enough to put Montana in 1st place in the U. S.

## FRUIT

Montana's sweet cherry crop is grown on the east shore of Flathead Lake. Production normally runs between 1,500 to 2,000 tons. The reputation of these mountain-grown cherries is very high, and since these come on the market when sweet cherries from other states are in limited supply, orchardists are usually paid premium prices for this crop.

Sour cherries are also raised in Ravalli County in Western Montana.

Some apples are also grown in the state, approximately 30,000 bushels with a value of nearly \$100,000.





STARTING 4th  
YEAR (1966) WITH  
CURTISS BREED-  
ING SERVICE

CURTISS SERVICE  
ANYWHERE IN  
SOUTH CENTRAL  
MONTANA

VISITORS WELCOME ALWAYS !

RIGHT: HEIFERS AND CHILDREN  
FRONT: BOSTANA PRINCESS RAMONA  
REAR: BOSTANA PRINCESS SUZETTE  
DAUGHTERS OF SKOKIE BENEFACOR

## BOSTANA RANCH

BOS AND SONS

Churchill, Montana — Mail Address  
Manhattan, Mont.

ESTABLISHED BY JOE A. BOS  
ON PRESENT LOCATION 25 YEARS

Registered and Commercial  
Holsteins  
Commercial Grain,  
Wheat and Barley



ROBERT AND DONALD BOS TAKE PRIDE IN THEIR RAPIDLY  
GROWING CURTISS BREEDING SERVICE

LEFT: CHILDREN OF ROBERT AND VIRGINIA BOS, TAMARA AND JOE,  
AND ALANA BOS, DAUGHTER OF DONALD AND STEPHANIE BOS, WHO  
ALSO HAVE A SON DONALD, NOT SHOWN



REPLICAS OF THE COVERED WAGON ARE USED AS A REMINDER TO THE PUBLIC THAT  
WAITE AND COMPANY HAS BEEN PROVIDING INSURANCE AND REAL ESTATE SERVICE  
IN BOZEMAN, MONTANA FOR A LONG TIME. THE AGENCY IS PROUD OF ITS HERITAGE,  
WHICH STARTED SHORTLY AFTER FOUNDER, E. M. GARDNER, ARRIVED IN BOZEMAN  
VIA COVERED WAGON IN THE YEAR 1879

A Wagon Load  
Of Insurance  
and  
Real Estate  
Service



GARDNER C. WAITE,  
SAM J. KAISLER, JR.,  
JOHN A. GATES

VERNON WHITEMAN  
DONALD FERROH  
RICHARD G. FISH

LEFT: FLOAT  
DEPICTING ARRIVAL  
OF E. M. GARDNER  
AND FAMILY  
IN BOZEMAN  
IN 1879

RIGHT: MODERN  
OFFICE OF WAITE  
& COMPANY TODAY  
LOCATED AT  
140 EAST MAIN  
STREET







ABOVE: AIR VIEW OF BRIDGER HOLSTEIN FARM SIX MILES UP BRIDGER CANYON FROM BOZEMAN

## BRIDGER HOLSTEIN FARM

SIX MILES NORTH OF BOZEMAN, MONTANA  
ON THE BRIDGER CANYON ROAD

Lawrence G. Christie — Lorraine J. Christie  
and Son George S. Christie

Member of Gallatin Holstein Club

★ **REGISTERED HOLSTEINS** ★

Established in 1934

Home of Bridger Sarah Cola  
State Junior 4-Year Old Leader  
22,295 Pounds of Milk, 667 Pounds of Fat

BELOW: CLEANLINESS IS THE  
WATCHWORD AT BRIDGER  
HOLSTEIN FARM



LEFT: NEW FREE STALL LOAFING SHED  
ACCOMMODATES 56 HOLSTEINS TODAY



ABOVE: BEAUTIFUL PASTURE SCENE TAKEN ON BRIDGER HOLSTEIN FARM WHICH LIES AT AN ELEVATION OF 5,025 FEET

Ranking 23rd in the Nation in 1962 with 17,420 Pounds of Milk  
With a Herd of 38 Holsteins That Year

ON H.I.R. TEST 305 DAY MATURE EQUIVALENT



LEFT: DRURY-  
LANE COL RAVEN  
JOHN GLEN—  
PRESENT HERD  
SIRE AT  
BRIDGER  
HOLSTEIN  
FARM



MR. AND MRS. CHRISTIE IN  
FRONT OF THEIR BRIDGER  
CANYON HOME



Air View of Boylan Ranch Where a Newly Completed  
Retail Store Is Now Open — Stop At

## BOYLAN'S DAIRY BAR

SEE PHOTOGRAPH OF ANGUS CATTLE ON PAGE 113



One Mile South of  
Bozeman on Highway 458

Established 1949

## "M" View Angus Ranch

PAUL F. BOYLAN

Phone JU 6-5531 — Star Route

BOZEMAN, MONTANA

DIAL  
586-5531

## REGISTERED ANGUS AND HOLSTEIN CATTLE

LARGEST  
SOURCE OF  
BARDOLIERMERE  
BREEDING IN  
THE NORTHWEST

PICTURES WERE TAKEN  
LATE IN 1965 OF THIS  
160-ACRE SPREAD OF  
PASTURE AND HAY LAND





FIRST PLACE JUNIOR YEARLING AT THE GALLATIN BLACK AND WHITE SHOW—ONE OF OUR TOP SHOW AND DAIRY PROSPECTS

## BOS BROTHERS GALLA-MONT HOLSTEIN FARM

ESTABLISHED IN 1962

330 Acres of Irrigated Land of Which 100 Acres are Pasture  
and 230 Acres of Alfalfa and Cereal Grains

9 Miles West of Bozeman—4½ Miles North Along the Gallatin  
River—¾ Mile West — Phone Belgrade 388-4471 or 388-4594

RIGHT: A  
GROUP OF  
OUR FUTURE  
SHOW AND  
MILKING  
HERD

BELOW:  
PASTURE  
SCENE OF  
ONE OF THE  
HIGHEST  
PRODUCING  
HERDS IN  
THE STATE



COME  
LET US  
SHOW  
YOU SOME  
OF THE  
STATE'S  
FINEST  
HOLSTEIN  
DAIRY  
CATTLE

- GENERAL TRUCKING
- STORAGE
- LIVESTOCK HAULING

TRUCKING  
ANYWHERE  
IN THE  
STATE  
CLASS C  
M. R. C.  
PERMIT



You Can TRUST  
Us With Your  
Fine Furniture  
Class B Permit  
M. R. C.

**FONK TRANSFER AND STORAGE**  
CONTINENTAL OIL COMPANY AGENT  
MANHATTAN, MONTANA — DIAL 284-3371



## THREE FORKS COMMERCIAL FEED LOTS

EAST EDGE OF THREE FORKS, MONTANA

INVESTIGATE OUR PREMISES  
AND MODERN FEEDING FACILITIES

One of the Pacific Northwest's Finest  
Feeding Operations

Our List of Repeat Satisfied Customers is Your  
Assurance of Operating "Know-How"



WE INVITE ALL CATTLEMEN  
TO VISIT AND SEE OUR  
MODERN SET-UP WHICH  
APPEALS TO THE STATE'S  
MANY SUCCESSFUL  
RANCHERS

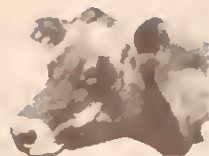






# JERLAY FARMS

MILA & CAROL TODD & SONS  
Route One  
REGISTERED GALLOWAYS AND JERSEYS  
BOZEMAN, MONTANA



PART OF THE PRESENT FARM WAS  
ESTABLISHED BY GRANDFATHER  
R. L. TODD IN 1910

FAR RIGHT: GROUP OF 2 YEAR  
OLD HEIFERS, REPLACEMENT  
STOCK FOR OUR MILKING HERD  
PRODUCING GRADE A MILK FOR  
THE GALLATIN COOPERATIVE  
CREAMERY FOR TWENTY YEARS

600 Acres Today for Raising Fine Jersey  
Dairy Cattle and Top Galloway Beel Cattle  
As Well As Hay and Small Grains

Dial 586-6864

12 MILES WEST OF BOZEMAN ON STATE  
HIGHWAY 289 — 1st PLACE ON NORRIS  
CUT-OFF ON NORTH SIDE OF HIGHWAY

RIGHT: JEFF,  
MICHAEL,  
JOE AND  
LINDSAY  
TODD, JUST  
HOME FROM  
THE 4-H FAIR  
AND PROUD  
OF THEIR  
WINNING  
RIBBONS  
FOR THEIR  
JERSEY  
HEIFERS



ABOVE: AIR VIEW OF JERLAY FARMS—ROUTE ONE, BOZEMAN, MONTANA

## WHEN LOOKING FOR FINE DAIRY OR BEEF CATTLE --- COME TO THE GALLATIN VALLEY

HOMESTEADER GALLOWAYS, JERLAY FARMS,  
BOZEMAN, MONTANA

We had the first Galloways in Gallatin County in 1948. We started Improvement Performance Registry testing in 1954. We test all Galloway bull calves 140 days. Any bull that does not come up to the average gain of the group is slaughtered. The heifers are weighed at weaning and at 18 months of age. Top gainers are kept for replacement.

63 P 31 of H. G., one of our herd sires, gained 3.45 pounds per day. We had the highest gain on official test of any Galloway bull in United States.

1. P. R. BULLS FOR SALE! — VISITORS WELCOME!

SEE PAGE 154 ALSO

BELOW: HOMESTEADER GALLOWAYS AT JERLAY FARMS



Many Very Fine Dairy Herds Are Concentrated in the  
Huge Milk Producing Area . . .

You Will Find a Cordial Welcome at All of Them

BELOW: FINE HOLSTEINS AT BRIDGER HOLSTEIN FARM



Boylan's M-View Angus Ranch Urges You to Visit  
The Big Winter Fair

"The twentieth annual Winter Fair has just concluded for 1966 and our exhibits and crowds were larger than ever before. There were 1,300 head of livestock shown, and the largest number of entries ever in the Household and Applied Arts Division. Horse shows were held in connection with the fair and large crowds attended all the events. Seven purebred livestock sales were held, in addition to the fat stock sale for 4-H and F.F.A. members."

BELOW: PASTURE SCENE AT M-VIEW ANGUS RANCH





FISHING IN THE  
NATIONALLY  
KNOWN  
GALLATIN RIVER  
WHERE LIMIT  
CATCHES OF  
RAINBOW AND  
GERMAN BROWN  
TROUT ARE  
COMMON  
PLACE

## WELCOME TRAVELER

A Thriving Western Town and Shopping Center for Large Numbers of Gallatin Valley People

The Town is Hemmed in by Lofty, Majestic Mountain Ranges

Dairy and Beef Cattle are Among the Finest in the Entire Northwest

Quiet, Shady Streets and a Park and Picnic Area in the Heart of Town Make it a Fine Place to Visit

No Finer Climate the Year Around in Montana

Churches, Schools, Banking and a New Modern Medical Clinic Add to the Allure of Visiting or Living Here



While in the Gallatin Valley — Stay at  
Manhattan's New

## TP MOTEL

First Floor of Modern Building is the  
THOMSON HARDWARE  
Kelvinator — Admiral — Motorola

Dial 284-3329

If no answer

Dial 284-3311

Free TV

AREA  
INFORMATION  
AND  
GENUINE  
COMFORT



COOL, SHADY PICNIC PARK IN CENTER OF TOWN



FISH — HUNT — RELAX WITH US



## TO THE GALLATIN VALLEY



PICTURE OF NEW MODERN MANHATTAN CLINIC—  
COURTESY OF MANHATTAN STATE BANK

The West Gallatin River, which springs from the eternal snow in the mountains near Yellowstone Park, flows within a stone's throw of Manhattan's city limits and is filled with trout up to 8 or 9 pounds.

Deer abound in the surrounding forests, also elk and moose.

The Madison, Jefferson and Baker streams are at our door and all are recognized as some of the top fishing spots in America.

Birds of all kinds flutter in our fields—grouse, prairie chickens, Huns, Chinks and mallards.

One can leave Manhattan by car and make the entire loop trip through Yellowstone National Park and return by evening.

**MAKE YOURSELF AT HOME IN  
MANHATTAN, MONTANA**

LET US  
TELL YOU  
ABOUT THE  
MANY  
BEAUTIFUL  
DRIVES  
WHICH ARE  
JUST  
MINUTES  
AWAY FROM  
DOWNTOWN  
MANHATTAN,  
MONTANA



SCENIC GALLATIN CANYON SHOWING GALLATIN RIVER AND ROAD TO YELLOWSTONE PARK



WARREN UP ON NIPPER JOE, REGISTERED  
QUARTER HORSE AT HIS RANCH THREE  
MILES EAST

LIVE MUSIC ON  
SCHEDULED NIGHTS

WARREN AND PAT McMILLAN  
WELCOME YOU TO MANHATTAN  
IN THE HEART OF THE BEAUTIFUL  
GALLATIN VALLEY AND MONTANA'S  
FINEST HUNTING AND FISHING

COUNTER  
BOOTH  
LOUNGE

**BROKEN  
ARROW  
BAR & CAFE**

HUNTING  
AND FISHING  
INFORMATION



PAT AND WARREN ON THE RANCH

CENTER OF TOWN  
NEXT TO POST OFFICE



ABOVE: THREE FORKS PLANT



**Three Forks Manufacturing Co.**

P. O. Box 855  
THREE FORKS,

Phone 285-3541  
MONTANA



ABOVE AND BELOW: LARGE STOCKS AND GOOD HOUSEKEEPING  
ASSURE YOU OF PROMPT SERVICE

CATTLE MANURE FERTILIZERS — DEHYDRATED  
SCREENED — PULVERIZED — WEED FREE — PURIFIED  
LOCALLY PROCESSED AND PACKAGED  
THE PERFECT MULCH FOR LAWNS AND GARDENS



VISITORS  
WELCOME

WORKING  
WITH ALL  
MONTANANS  
FOR A  
PROSPEROUS  
MONTANA



AIR VIEW OF THREE FORKS, MONTANA



RIGHT:  
WINTER  
AIR VIEW  
OF DYSTRA  
HOLSTEIN  
FARM AT  
AMSTERDAM

IN THE GALLATIN VALLEY  
ALL TYPES OF LOCAL  
INDUSTRY WORK TOGETHER  
FOR THE GOOD OF THE  
AREA AND THE  
STATE'S ECONOMY

- Beef Industry
- Dairy Industry
- Feed Lot Industry
- Manufacturing Industry

Helped By Others in the  
Agricultural, Industrial and  
Service Fields . . .



BELOW: BEEF CATTLE—IMPORTANT LOCAL INDUSTRY



BELOW: AIR VIEW OF MODERN THREE FORKS FEED LOT



BELOW: AIR VIEW OF THREE FORKS MANUFACTURING CO.





## PART OF MONTANA'S 4-SEASONS VACATIONLAND



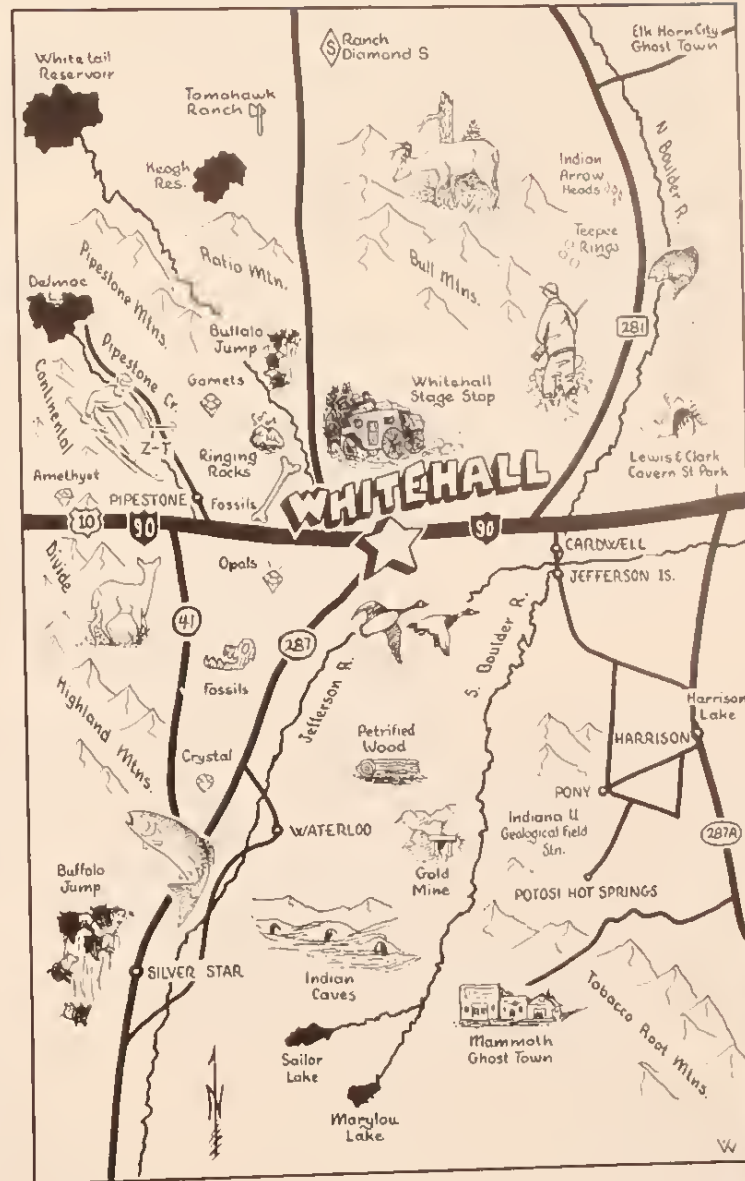
RIGHT  
MAP OF  
WHITEHALL  
& VICINITY  
VACATION  
AREA

GATEWAY  
SERVICE  
CENTER  
BEFORE  
CONTINUING  
ON TO  
YELLOW  
STONE NA-  
TIONAL PARK



ABOVE:  
MOUNTAIN  
LION TAKEN  
NEAR  
BOULDER

LEFT:  
AREA FISH  
INCLUDE  
WHITEFISH,  
RAINBOW,  
BROOK  
TROUT AND  
MANY  
OTHERS



Map run by courtesy of Main Texaco Service—Center  
of Whitehall—Tourist, hunting and fishing information



The

## Jefferson Valley

Featuring

**WHITEHALL --- CARDWELL  
WATERLOO**

And the North and South  
Boulder Valleys

Brochure distributed by courtesy of  
Whitehall Junior Chamber of Commerce  
**WHITEHALL, MONTANA**



**CHECK WITH THE JUNIOR CHAMBER OF COMMERCE**

# RODEOS ★ RIDING CLUBS ★ ALL WESTERN EVENTS



DOWNTOWN WHITEHALL IS ENHANCED BY A TREE SHADED PARK ON ONE SIDE OF THE MAIN HIGHWAY



BELOW: MAIN STREET LOOKING WEST WITH MAIN STREET TEXACO IN LEFT FOREGROUND

STOP WHILE DRIVING THROUGH WHITEHALL AND RELAX IN A BEAUTIFUL WOODLAND ATMOSPHERE AND STILL BE ABLE TO SHOP AND RECEIVE SERVICE JUST ACROSS THE STREET



Quinn Ranches Provide Much of the Spirited Rodeo Stock for Outstanding Western Shows and Rodeos.

Quinn Ranches are Located North of Whitehall

RODEO AND OTHER SPECIAL WESTERN EVENTS ARE A GENUINE SOURCE OF EXCITEMENT & ENTERTAINMENT FOR YOUNG AND OLD ALIKE



## JEFFERSON VALLEY HIGHLIGHTS

### FISHING BRIEFS:

There are several areas near Whitehall that offer top fly or bait fishing such as the Whitetail Creek, Pipestone Creek, South Boulder River and North Boulder River (river is implied by the name but they are average size creeks). The largest river is the Jefferson River, which offers excellent spoon, fly and bait fishing all year round. This river has turned up some huge brown trout and rainbows—the largest weighing in at 17½ pounds. Three and four pound trout are quite common. Floating is the best method of fishing this river but it is easily wadable in July through September.

Mountain lakes are plentiful in the area also, such as Sayler lakes, Mary Lou Lake, Brannen Lakes, Keogh's Reservoir, Globe Lake, Lost Cabin, Bell Lake, Bismark reservoir and Lake Delmoe (the only one accessible by car or truck for water skiing and boating).

The types of fish caught are German Brown, Lochleven, Rainbow, Golden Trout and the native cutthroat, whitefish and grayling. In Lake Mary Lou the Golden trout attain a weight of 6 or 7 pounds.

### HUNTING:

The Whitehall area is one of the few remaining areas in the U. S. where a hunter can find all the varied types of game on the North American continent. In one hunt a hunter can bag deer (whitetail or mule), elk, bear (grizzly or black or brown), antelope, lion and bobcat. Several record trophy deer and elk have been taken in this area and there are plenty of places for the ardent and hardy hunters to look for others.

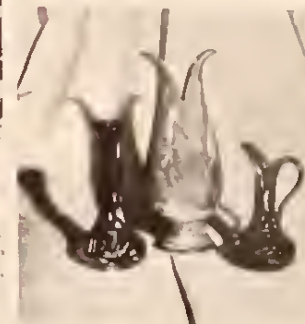
There is a vast number of miles of beautiful mountain country for those that enjoy the scenery. There are pack trips into some of these areas and spots for summer cabins and homes.

### GEOLOGICAL:

There are many areas of interest for those that like to hunt fossils, visit buffalo jumps, dig agates, opals, garnets, or look for petrified wood and visit Indian caves.

Indiana University's Geological Survey Station (located in the south Boulder area) was built in this locality because there were more varied types of geological masses available for study in this area, than in any other comparable area in the states. These areas are all located within a forty mile radius of Whitehall.

FOR FINE CLAY GIFTS, DRIVE TO CARDWELL



You are Cordially Invited to Stop by and Visit



## Stay at Whitehall - Minutes Away From Activities to Suit Young & Old



LEFT: ULTRA-MODERN HOLSTEIN DAIRY FARM JUST SOUTH OF WHITEHALL ON ROAD TO YELLOW-STONE PARK



GLACIER MOUNTAIN CHEESE CO. OFFERS FINE VARIETIES OF CHEESES GIFT WRAPPED FOR MAILING



ABOVE: PICTURE TAKEN ON SNOW RANCHES

BELOW: HOLSTEIN CATTLE ON VALLEY VIEW HOLSTEIN FARM



DAIRY AND BEEF CATTLE PLAY A BIG ROLE IN THE AREA'S ECONOMY

FARM YOUTH ORGANIZATIONS TAKE AN ACTIVE PART IN COMMUNITY AFFAIRS



VISITING FARMERS AND RANCHERS WILL ENJOY LOOKING OVER OUR FINE SPREADS

C. J. HEAP CHEESE PLANT AT WHITEHALL

For Full Information Regarding Rivers, Scenic Drives, Agates, Fossils, Ski Runs, Hunting, or Accommodations or Cafes — Contact ANY Member of the Whitehall Junior Chamber of Commerce



ABOVE AND RIGHT: PHOTOGRAPHS TAKEN AT WHITEHALL SAW MILL CO. WHICH SPECIALIZED IN PRODUCING CUSTOM MADE BUILDING LOGS



## WHITEHALL MONTANA

### TRADING CENTER FOR JEFFERSON COUNTY

HEADQUARTERS FOR  
TOURISTS -- HUNTERS  
FISHERMEN---CAMERA ENTHUSIASTS

LOGS FROM LOCAL MILL ADD TO ATTRACTIVENESS OF THIS SNUG, COMFORTABLE HOME



Professional Services - Cafes - Car Service - Stores & Accommodations

## WHITEHALL AND THE JEFFERSON COUNTRY



WINTER FISHING ON THE JEFFERSON RIVER



ELK HUNTING IN THE JEFFERSON COUNTRY

FUN FOR OLD  
AND YOUNG  
SKIING ON  
Z T SKI  
WHICH  
A  
PLATTER LIFT,  
20 MILES WEST  
OF WHITEHALL  
ON TOP OF  
PIPESTONE  
PASS

SCENIC  
PICTURES  
COURTESY OF  
WHITEHALL  
SAWMILL CO.  
GLACIER MOUN-  
TAIN CHEESE  
VALLEY VIEW  
HOLSTEINS  
CLAYS N' CALICO  
MAIN TEXACO  
SERVICE  
MIKE QUINN  
RODEO STOCK  
PEHL IMPL-  
MENT CO.  
SPACKMAN  
AND SON  
SHAW RANCHES  
FREE ENTER-  
PRISE MINE



AIR VIEW OF WHITEHALL, MONTANA COURTESY OF PEHL IMPLEMENT CO. AND SPACKMAN & SON  
MARKET AND LOCKERS WHICH APPEARS AT EXTREME LOWER RIGHT OF PICTURE

In July 1867, the old Milk Ranch, several miles north of Whitehall, was authorized as the first post office and stage line station.

In 1868, Major E. G. Brooke, a Virginian, was appointed Post Master. A year later he renamed the post office and stage station, "Whitehall" after the Whitehall House in Illinois.

By 1889 the Northern Pacific had built their lines and the western section of the present site of Whitehall had been homesteaded from the old Yellowstone Trail. The owner platted this area into lots and streets and stipulated as sold they would remain as originally drawn and the name "Whitehall" also be given to the area. The Northern Pacific donated the right of way to the town. The eastern section was annexed in the early

1900's. The railroad proved to be the main influencing factor for the moving of Whitehall to its present site, later followed by the post office in 1890.

Whitehall and the surrounding Jefferson Valley proved to be an exciting community in the late 1800's and early 1900's. Homesteading was increasing with most of the homesteaders engaged in stock raising. The smaller ranches and more diversified farms came later. Numerous orchards were started in the valley and on bench land.

The mountains were spotted with productive mines, several sawmills and an active lumber industry joined the miners and homesteaders in developing Whitehall and the Jefferson Valley area.



FISHING ON THE LOWER BIG HOLE RIVER



SUMMER FUN — RIGHT BOY SCOUT OUTING







Pre-Cut and Precision Fit  
 IMAGINATIVE AND CREATIVE DESIGNS WITH  
 GENUINE FULL ROUND LOG CONSTRUCTION

Manufactured By  
**LUMBER**  
**ENTERPRISES, INC.**  
 FIRST NATIONAL BANK BUILDING  
 BOZEMAN — MONTANA



MAGNIFICENT ARRANGEMENT FOR  
 ALL OCCASION CENTER PIECE

THE  
 UNIQUE  
 GIFT



FUNCTIONAL, OVEN PROOF AND  
 VERY DECORATIVE

BEAUTY and ORIGINALITY

# CLAYS IN CALICO

THE PERFECT GIFT FROM  
 CARDWELL, MONTANA

Manufacturing Plant, Studio, & Sales  
 Office 6 Miles East of Whitehall, Mon-  
 tana and 1 Mile South of Highway 10  
 on Highway 359

WESLEY AND VIRGINIA  
 VAN GORDEN  
 Owners

Our clays are hand sorted into three  
 different color classifications

CREAM OR IVORY

VERY DEEP RED

A LOVELY BROWN

The calico effect is obtained by blend-  
 ing various colors by formula

Take Home an Unusual Gift  
 Made in Montana

POTTERY FROM MONTANA CLAYS  
 IN THEIR NATURAL COLORS AND  
 ORIGINAL DESIGNS

YOU'LL ENJOY A VISIT TO  
 OUR POTTERY IN CARDWELL



SERVE COFFEE WITH A FLAIR  
 UTILITARIAN TEA SET WITH CHARACTER



VASES DESIGNED WITH THE FLOWER  
 ARRANGERS IN MIND







**RANCHING UNDER THE BIG SKY**  
Land -- Lots of Land . . . Don't Fence Me In . . .



ABOVE: HARVESTING SCENE IN BEAVERHEAD COUNTY

COURTESY OF

## **Dillon Ranch Supply**

**SALES ★ SERVICE**

**COMPLETE FARM**

**INDUSTRIAL EQUIPMENT**

**NEW -- USED**

DIAL DILLON 683-5881

P. O. BOX 585 — DILLON, MONTANA

PHOTOGRAPH ABOVE TAKEN ON JONES RANCH



Choose from the  
long Green Line  
of John Deere  
Equipment.  
Over a century  
and a quarter  
dedicated to  
Quality!







ABOVE: JOHN AND GLORIA'S HOME



R. M. AND PEARL BROKSLE AT THEIR RANCH



R. M. AND PEARL BROKSLE'S HOME



TOP RIGHT: JOHN AND GLORIA'S DAUGHTER ON HER QUARTER HORSE, "COCOA"



ABOVE: JOHN AND GLORIA WITH THEIR CHILDREN

# Broksle Bros. Ranches

EIGHT MILES SOUTH OF TWIN BRIDGES, MONTANA

30,000 ACRES WITH 600 ACRES UNDER CULTIVATION

PROGRESSING ALONG WITH BEAUTIFUL  
SOUTHWESTERN MONTANA

VISIT THE BEAUTIFUL  
MADISON VALLEY

Cattle and Grain Visitors  
Are Invited to Stop  
And Look Around . . .

ESTABLISHED  
1900

PHONE  
684-5432

**MONTANA  
BOOSTERS!**

AT LEFT: JOHN STANDING IN  
LUSH MEADOW

**CERTIFIED SEED POTATOES ★ HOGS ★ COMMERCIAL HEREFORDS  
JERSEY HERD ★ SMALL GRAINS**

LEFT: JOHNNY, TOMMY, PUP AND PET CROW  
BELOW: JERSEY SCENE ON RANCH

GLORIA BROKSLE ENJOYING HER  
BEAUTIFUL FLOWER GARDEN

123

HEREFORD CATTLE ARE AN IMPORTANT  
PART OF THE OPERATION







HOME OF THE PROMINO AND PROMISES  
 Hill's Promino 380th  
 Hill's Promise A 800th  
 Bow Promise 266th — King Promise A-92



# Grassland



## HEREFORD RANCH

World's For Our Sign Bow Miles South of Drummond

ANITA R. H.  
OWNER

On Highway  
A

B. JON H.  
HERDSMAN

Hills Promino 47	2997490	( Beau Promino 66	2117369
		( Dominette 18	2136869
Promina 87	2997518	( Beau Promino 66	2117369
		( Lady D Brown 31	2457579
Hills Domino	1972329	( Reginald Dom 23	1670975
		( Camas Panama	1407774
Dominina 66	2975091	( Internat'l Dom 18	2355404
		( Dominina 18	2428608
Hills Promino 32	2627117	( Beau Promino 66	2117369
		( Dominita	1972335
Lady Promise 71	3382011	( Hills Domino	1972329
		( Oominina 66	2975091
Bocaldo Mis. 128	3073388	( Bocaldo Oon 927	3058619
		( Belle Oonald 638	3073387
Hills Oominita 10	3106469	( Hills Dominoss 8	2627106
		( Caldolie 15	2020404
Hills Promino 47	2997490	( Beau Promino 66	2117369
		( Dominette 18	2136869
Promina 87	2997518	( Beau Promino 66	2117369
		( Lady D Brown 31	2457579
Internat'l Oom. 18	2355404	( Prince Domino 9	1425000
		( Miss Stanway 8	1665024
Dominina 18	2428608	( Sir Domino	1853879
		( Onwarda 27	2072962
Hills Promino 47	2997490	( Beau Promino 66	2117369
		( Dominette 18	2136869
Promina 87	2997518	( Beau Promino 66	2117369
		( Lady D Brown 31	2457579
Ht. Beautys Boc. 2	2726488	( Beautys Bocal 17	2439107
		( Joy Blanchard 6	2208359
Promino 40	2627182	( Beau Promino 66	2117369
		( Miss Dall	1571645

DRUMMOND, MONTANA



AZILE  
GARRISON

BRAND  
MARKS

WG

F



BILL AND AZILE WITH FAMILY



W. F.  
(BILL)  
GARRISON

## GARRISON RANCHES, Inc. GLEN, MONTANA

DIAL  
835-2791

Running Nearly 2,000 Head of Commercial Herefords  
Top Registered Herefords for Building Own Commercial Herd  
Producing 700 Head of Yearlings Annually  
125 Acres of Grain — 2,500 Tons of Hay  
Ranching Covers Several Thousand Acres in Madison  
and Silver Bow Counties

Grandfather John B. Fehring walked all the way to Alder Gulch with his burro in 1864-65 from California Gold Fields.

Father James H. Garrison came to Nevada City, Montana from Iowa about 1880. He married Elsie Febring who was raised in Alder Gulch. Children of James and Elsie Garrison were four boys and a girl.

In 1905 James and Elsie bought the present home ranch near Glen. The third son, Wm. F. (Bill) Garrison, born in 1903, stayed on the ranch with his parents. Years passed and after Mr. James Garrison's death Bill

purchased more land and cattle and also bought the home ranch from his mother and brother J. B. Garrison who was a State Senator from Madison County in the 30's.



Wm. F. (Bill) Garrison married Azile Craddock of Butte in 1939. Their children are Mary L., now Mrs. Richard Seim, married in 1963, one child, Scott Allen; and Bill E. Jr. married in 1964 to Floydenna McClennan.

Wm. F. (Bill) Garrison was elected as State Representative from Madison County in 1962, serving 1963-1965 sessions as Republican Representative. Bill is 2nd vice president of the American National Cattlemen's Association and a past member of the executive committee of the Montana Stockgrowers Association.

Azile Garrison is a past president of the American National Cawbells.

LEFT: PHOTOGRAPH TAKEN  
AT 1964 WEDDING  
REFERRED TO IN STORY

LEFT: MAIN RANCH  
RIGHT, TOP TO BOTTOM:  
SCENES ON RANCH TAKEN  
IN FALL OF 1965



# Shaw Ranches Inc.

CARDWELL, MONTANA

A Pioneer Family Producing Top  
Grade Cattle for the Markets  
Of the Nation



PHOTOS ABOVE AND BELOW DEPICT THE BIG SPRING-TIME JOB OF SEPARATING CALVES FROM COWS. THE CALVES ARE LOADED INTO HUGE CATTLE TRUCKS AND TRANSFERRED TO TO SUMMER RANGE

THE COWS ARE HERDED TO RANGE APPROXIMATELY 100 MILES AWAY, TAKING SEVERAL EXPERIENCED RIDERS AND WELL TRAINED HORSES TEN DAYS TO TWO WEEKS

RAISING AND TRAINING OF THE HORSES USED ON THE SHAW RANCHES ARE ALSO BIG JOBS, KEEPING THE SHAW FAMILY BUSY THE YEAR AROUND

LOWER PHOTO, TAKEN IN 1959, SHOWS HARRY SHAW JUNIOR ON HORSEBACK, INSIDE THE CORRAL, SUPERVISING THE OPERATIONS



PHOTO ABOVE: JUNE 1965. TIME IS TAKEN IN THE BUSY LIFE OF CATTLEMEN TO CELEBRATE HARRY AND RUBY'S GOLDEN WEDDING ANNIVERSARY, SHOWN HERE WITH SONS ERANK AND VERN

OVER 60 DIRECT DESCENDANTS ATTENDED THIS HAPPY OCCASION

PHOTO LEFT: 4-H CLUB ACTIVITY BY YOUNGSTERS OF THE SHAW FAMILY CONSISTENTLY WIN RIBBONS AT ANNUAL 4-H SHOWINGS

GAIL ANNE SHAW PROUDLY DISPLAYS HER PRIZE WINNING FAT BEEF

PHOTO AT RIGHT: MR. AND MRS. HARRY SHAW, THEIR THREE SONS AND FAMILIES POSE FOR A FAMILY PICTURE SHORTLY BEFORE THE UNTIMELY DEATH OF HARRY JR. IN 1960





PHOTO RIGHT: AERIAL VIEW OF HOME RANCH  
NEAR CARDWELL. INSET: MR. AND MRS. LOREN  
L. SHAW, PIONEER FOUNDERS OF PRESENT DAY  
SHAW RANCHES, INC., COMING TO VIRGINIA  
CITY, MONTANA IN 1864 AND FILING A HOME-  
STEAD CLAIM ON THE SITE OF THE PRESENT  
DAY HOME RANCH IN 1871

PHOTO ABOVE:  
BRINGING THE CATTLE  
OUT OF THEIR MOUN-  
TAIN SUMMER RANGE  
TO THEIR WINTER  
FEED GROUNDS AND  
SHIPPING CENTER

PHOTO AT RIGHT:  
COWS WITH CALVES  
IN THE EARLY SPRING  
PRIOR TO BEING  
DRIVEN TO  
SUMMER RANGE

PHOTO AT RIGHT:  
BRANDING SOME 800  
CALVES IS A BUSY  
TIME FOR ALL HANDS  
AT THE SHAW RANCH

PHOTO AT LEFT: WINTER  
FEEDING (SOME 2,000 TO  
2,400 HEAD) TAKES MOST  
OF THE 2,000 TONS OF  
HAY HARVESTED EACH  
SUMMER ON THE SHAW  
RANCHES

RANCHES  
FOUNDED  
1871

GOING  
STRONG  
1966

SAGA OF THE

## Shaw Ranches, Inc.

1871 to 1966

Four Generations of the Shaw Family Represent Nearly 100 Years of Continuous Residence and Growth in Building One of Montana's Finest Cattle Ranches. Producing an Average of 800 Head of Hereford Cattle and 2,000 Tons of Hay Annually on Ranches in Madison and Jefferson Counties with a Total of Over 23,000 Acres.

CARDWELL, MONTANA



WELCOME TO  
MONTANA AND  
OUR MADISON  
VALLEY

25,000 ACRES  
2,500 CATTLE

Mrs. Edward  
Gammie, Owner  
Ennis, Montana



HEREFORD AND ANGUS CROSS BRED FEEDERS  
1200 TO 1500 FEEDER CATTLE FOR SALE ANNUALLY



WE MAINTAIN A PERMANENT HERD OF 650 TOP GRADE HEREFORDS

PHOTO AT  
TOP LEFT:  
GRAZING  
SCENE ON  
HOME  
RANCH FOUR  
MILES  
NORTH  
OF ENNIS

HORSEBACK  
PHOTO OF  
DAN WITH  
SON KIRK,  
MRS.  
GAMMIE,  
SON JOEL,  
MRS. LEAD-  
BETTER,  
DAUGHTER  
JILL



128

VISITING  
CATTLE PEOPLE  
CORDIALLY  
INVITED TO  
STOP BY

2,000 TONS  
HAY YEARLY

Dan & Debby  
Leadbetter  
Ranch Managers  
4 Mi. N. Hiway 20

PHOTOS  
TOP: THE  
LEADBETTER  
FAMILY AND  
MRS.  
GAMMIE AT  
MAIN GATE  
TO RANCH

LEFT: A FEW  
OF THE TOP  
GRADE  
HEREFORD  
BULLS

THREE  
LOWER  
SCENES ALL  
TAKEN ON  
THE HOME  
RANCH







THE MIKE QUINN FAMILY  
WELCOMES YOU TO THE  
BIG SKY COUNTRY!

## MIKE QUINN RANCHES, INC.

BOULDER, MONTANA — — DIAL 225-3600

**COMMERCIAL HEREFORDS**  
**REGISTERED HEREFORDS & HORSES**

Quinn Herefords Have Built An Envioble Reputation Over  
Mony, Mony Decodes Among Cottle People Throughout  
the West



QUINN RODEO STOCK IS THE  
FINEST YOU CAN GET FOR YOUR  
BIG SPECIAL EVENT. PICTURES  
WERE TAKEN AT THE ENNIS  
RODEO IN 1965

MIKE QUINN RODEOS ARE KNOWN AS THE BIGGEST  
CROWD PLEASERS IN THE WEST  
CONTACT US FOR DETAILS AND RATES

Visit All of Southwestern Montana For A Great Western  
Style Vacation . . .



BRAND  
MARK

τ



WINTER AIR VIEW OF BRAINARD HOME RANCH

## HARRY BRAINARD RANCH

MANHATTAN, MONTANA — DIAL 284-3752



REPLACEMENT HEIFERS AND BULLS FOR SALE AT RANCH—ANXIETY 4TH BREEDING

**REGISTERED HEREFORDS**  
**COMMERCIAL HEREFORDS**  
**HAY AND GRAIN**  
FIVE MILES EAST OF MANHATTAN



Edward, Anne and Son Edwin D. Brainard, Age 16

129



# RIVERSIDE FARMS AND RANCHES, INC.

GUY D. GEORGE & SON  
WHITEHALL, MONTANA

PHONES  
287-3506  
287-3667

- ★ POTATOES
- ★ GRAINS
- ★ CATTLE

Gratefully —  
We Accept  
the Bountiful  
Blessings of  
Success and  
the Genuine  
Friendliness of  
Our Friends and  
Neighbors . . .  
Guy D. George  
Family

PICTURES: THE TWO TOP PHOTOGRAPHS ARE AIR  
VIEWS OF THE GUY D. GEORGE RANCH & HOME.  
THE TWO LOWER AIR VIEWS ARE OF THE MAIN  
RANCH AND HOME OF GUY'S SON ON THE HIGH-  
WAY BETWEEN WHITEHALL & SILVER STAR, MONT.



ADAIR AND JOHN ON THEIR  
WELL TRAINED RANCH HORSES



CORRAL PICTURE ON HOTCHKISS RANCH

## HOTCHKISS RANCHES, Inc.

MALTA, MONTANA  
BOX 271

Adair, Berniece and  
John Hotchkiss

48,000 Acres Owned and  
Leased, of Which  
1,000 Acres are Cultivated  
For Hay and 700 Cultivated  
For Small Grains

- ★ COMMERCIAL ★
- ANGUS AND
- HEREFORD
- CATTLE

Established in 1885

Located 35 Miles North of  
Malta on Whitewater Creek



AIR VIEW OF MAIN RANCH CENTER



HEADING OUT FOR GRAZING



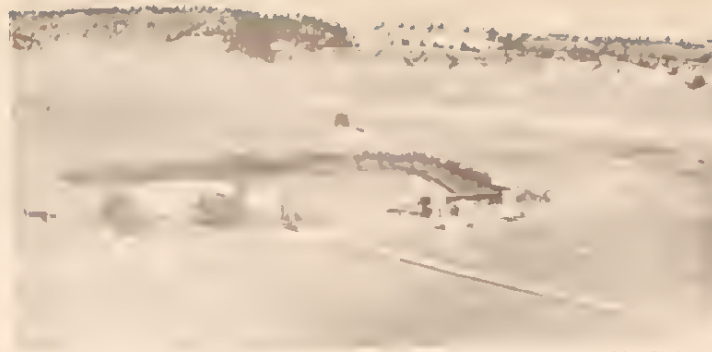
ANGUS ENTERING RANCH FEED LOT





PHOTO AT LEFT IS OF  
GREENLEAF'S OUTSTAND-  
ING UPSET  
CHICAGO NO. 310841  
CHESTNUT STALLION

Cattle  
and  
Quarter  
Horse  
Enthusiasts  
Always  
Welcome!



ABOVE: AIR VIEW OF MALCOLM McRAE'S RANCH 15 MILES SOUTHEAST OF HOME RANCH. MALCOLM IS ALSO A SON OF EVAN McRAE AND HAS A NEW HOME ON THIS RANCH



ABOVE: AIR VIEW OF HOME RANCH

# Greenleaf Land & Livestock Company

EVAN — MAC — DUKE McRAE

50,000 Acres, Rte. 1, Forsyth, Montana — 30,000 Acres Deeded



PURE WATER FOR GROWTH



HORSES ON RANCH

To John B. McRae the winter of 1887-88 would have meant the end of a dream. For in this band of starving sheep lay the foundation of his Montana ranch. He had worked hard for the creatures and it was not easy to see them starve and freeze to death before his eyes. So he worked to save the flock.

Neighboring ranchers were long to remember McRae struggling to save his animals, carrying his half dead sheep from patch of grass to patch of grass blown clear by the wind, while he ignored the sting of the winter's cold.

But he lost. By the time a warm chinook wind had melted the snow from the hills and spring was on hand, most of McRae's band lay dead at his feet or had drifted off to die under a snowbank in some far-off coulee or ravine.

This disaster only sidetracked the dream for awhile, for this native Scotsman was yet to build one of southeastern Montana's finest ranches.

McRae was born in Scotland January 1, 1856, the son of a prosperous farmer. When he was 25 years old he worked his

way to Texas on an ocean freighter and got a job on the sheep ranch of Adam T. Brown.

Later, in 1889 he bought the improvements of a French trapper, Pete St. Germain, who was located on a 160-acre squatter's claim on Rosebud Creek. This was the nucleus of the well-stocked ranch now owned and operated by his sons, Evan and Don. McRae later homesteaded nearby and had the first deed recorded in Custer county when Montana became a state in 1889.

He put sheep on this ranch, too, and began to expand his holdings, for there was no limit to the open range his bonds could graze. Sheepwagons were not used at first in the sheep hills and in their place McRae built a series of small log sod-roofed cabins for his sheepherders near creeks and springs.

In 1897 McRae opened mercantile stores in Forsyth and Rosebud under the name of McRae Supply Co.

McRae and Douglas began running Shorthorn cattle and they pretty well stayed with that breed until the partnership

ended, although this Hereford bull was bred in the Gallatin Valley around 1910 or '9.

When Douglas retired and went back to Scotland, McRae had about 10,000 deeded acres, including the purchase of Douglas' homestead.

McRae sold his sheep about 1920 and turned the raising of cattle to Herefords. He continued to actively run the ranch for the next 10 years then his sons, Evan and Don, took over its operation.

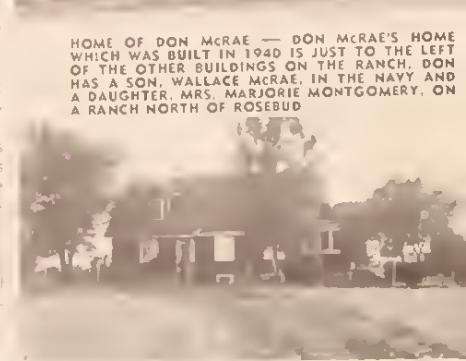
In 1927 the elder McRaes, their three daughters, Maggie, Katie Lillie and Mary Catherine, and two sons, Evan and Don, formed the Greenleaf Land and Livestock Corp. under which name the ranch still operates.

Don and Evan now are equal partners in the ranch. Since that time the ranch has continued to build up, until now McRae cows graze on about 80,000 deeded or leased acres.

The ranch now winters about 600 breeding Hereford cows and keeps 15 to 20 Quarter Horses for riding. It was the first ranch in the state to have a registered Quarter Horse stallion.



McRAE RANCH — THE 10-ROOM HOUSE TO THE LEFT NOW OCCUPIED BY EVAN McRAE AND EVAN McRAE JR. WAS BUILT BY JOHN B. McRAE IN 1914. THE BUILDING IMMEDIATELY TO ITS RIGHT IS THE FORMER HOME OF HUGH B. DOUGLAS, WHO LEFT THE RANCH ABOUT 1920



HOME OF DON McRAE — DON McRAE'S HOME WHICH WAS BUILT IN 1940 IS JUST TO THE LEFT OF THE OTHER BUILDINGS ON THE RANCH. DON HAS A SON, WALLACE McRAE, IN THE NAVY, AND A DAUGHTER, MRS. MARJORIE MONTGOMERY, ON A RANCH NORTH OF ROSEBUD



COMMERCIAL HEREFORDS

McRAE YOUNGSTERS ENJOY RANCH LIFE

131



REGISTERED QUARTER HORSES

"DON'T FENCE ME IN"



PLENTY OF WATER



# LES BROWN RANCH

27 MILES NORTH OF WOLF  
POINT, MONTANA  
LES AND HELEN BROWN  
PHONE 302-4202

- ★ REGISTERED QUARTER HORSES
- ★ COMMERCIAL HEREFORDS
- ★ EXTENSIVE WHEAT OPERATIONS
- ★ PROGRESSING WITH MONTANA



HELEN AND LES ON  
THEIR RANCH

HORSE AND CATTLE  
PEOPLE ARE CORDIALLY  
INVITED TO STOP BY

BELOW: ONE OF OUR FINE  
REGISTERED QUARTER HORSES



# STENSLAND RANCHES

22 MILES N. E. OF WOLF POINT,  
MONTANA ON BOX ELDER CREEK  
JOHN AND BETTY STENSLAND  
JOHN JR. & DOLORES STENSLAND

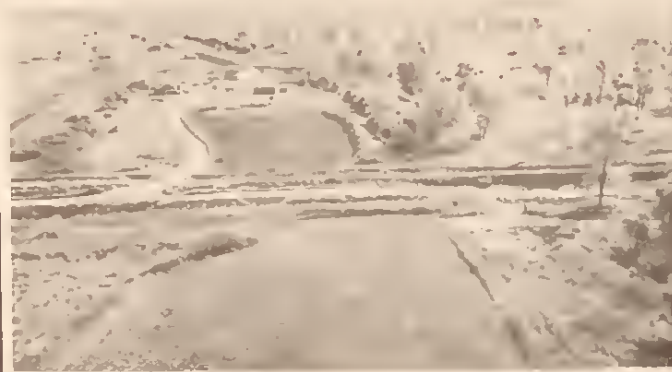
ABOVE AND LEFT: AIRVIEWS OF THE STENSLAND  
RANCHES

COMMERCIAL HEREFORDS  
REGISTERED QUARTER  
HORSES

SMALL GRAINS AND HOGS

ESTABLISHED IN 1915 BY JOHN  
AND BETSEY STENSLAND

2000 ACRES UNDER CULTI-  
VATION WITH 300 ACRES IRRI-  
GATED



JOHN AND BETSEY STENSLAND  
ARRIVED IN POPLAR, MONTANA  
IN 1915

ON A SCOUTING TRIP FOR A NEW  
HOME THEY RODE 19 MILES N. W.  
OF POPLAR, WHERE MRS. STENS-  
LAND SAW A SMALL SHACK IN A  
VALLEY FROM THE TOP OF A  
HILL AND SAID, "I WOULD LIKE  
TO LIVE THERE." JOHN AGREED,  
AND THAT IS THE WAY THEY DE-  
CIDED ON THE LOCATION



ABOVE:  
JOHN  
AND  
BETSEY  
ON HORSE  
BACK

RIGHT:  
JOHN AND  
BETSEY'S  
FAMILY  
IN FIRST  
HOME

BELOW  
RIGHT:  
JOHN JR.  
WITH  
TWO OF  
THEIR  
FINE  
HORSES

LEFT: HAY-  
ING AND  
CATTLE  
PHOTOS







AIR VIEW OF MAIN RANCH—AREA 12,960 ACRES OWNED AND LEASED  
WITH 1,800 ACRES UNDER CULTIVATION

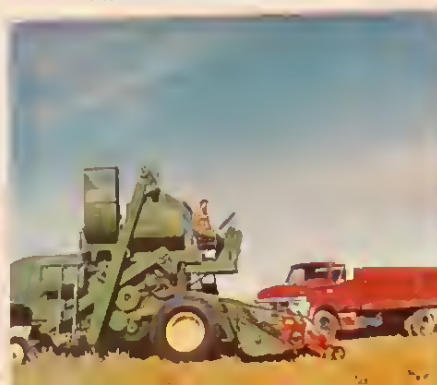
COMMERCIAL AND REGISTERED  
HEREFORDS  
REGISTERED APPALOOSA HORSES  
REGISTERED QUARTER HORSES  
SMALL GRAINS AND HAY  
VISITORS ALWAYS WELCOME



LEFT AND BELOW: HEREFORD SCENES TAKEN IN  
LATE 1965 ON COTTONWOOD RANCH

133

MODERN EQUIPMENT HELPS KEEP PACE  
WITH PRODUCTION



BELOW: HORSES IN A CORRAL AT LUND'S  
MAKE A PRETTY PICTURE



# Lund's

COTTONWOOD  
RANCH

GORDON, BYRL AND  
SON, DALE LUND

ESTABLISHED 1939

BRANDS

-MJ <

34 Miles North of Wolf Point,  
Montana—Dial 392-4310



DAWN MIST

RIGHT: SON DALE WITH  
FOLKS GORDON AND  
BYRL LUND ON COTTON  
WOOD RANCH. MRS. LUND  
IS A PAST PRESIDENT  
OF COWBELLS



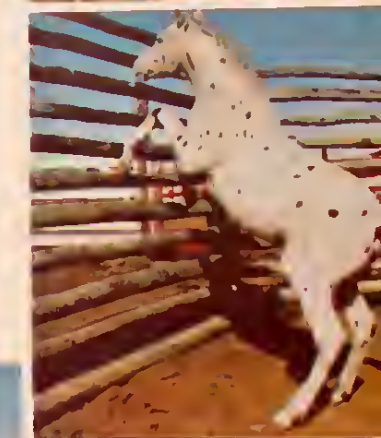
RIGHT:  
BEAUTIFUL HORSES ON  
LUND'S COTTONWOOD  
RANCH. THESE ARE FILLIES  
FROM TAYLOR'S  
SUN DANCE



RIGHT:  
QUARTER HORSES  
AT PASTURE



RIGHT:  
HINDU-DEXTER  
STANDS UP FOR  
PHOTOGRAPHER

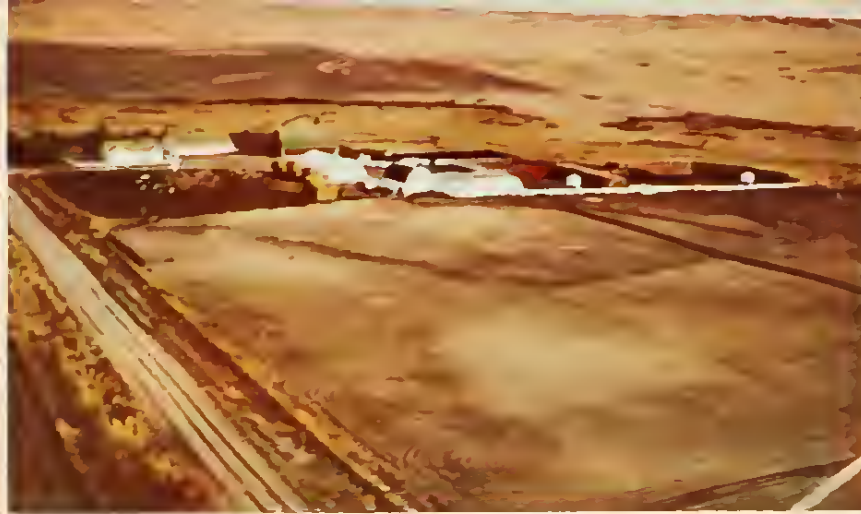


BOTTOM RIGHT:  
1965 CROP OF COLTS  
FROM CHUB'S DEXTER  
NO. 19983





AIR VIEW OF MAIN RANCH



AIR VIEW OF RANCH NUMBER TWO



TOP RIGHT: JOHN AND LENA TOAVS



RIGHT: JOHN AND LORNA JACKSON.  
LORNA IS THE DAUGHTER OF  
JOHN AND LENA

SIXTEEN MILES NORTH OF WOLF POINT, MONTANA ★ PHONES 392-4213 & 4138



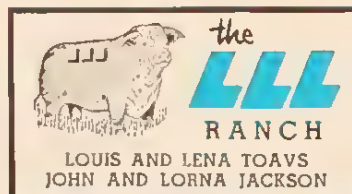
Continually Working  
Far a Better Montana

By Producing Finer

Registered and  
Commercial Herefords

Registered Appalaasa  
and Quarter Horses

Wheat and Small Grains



You Will Find a Hearty  
Welcome at Our Ranches

We Love Montana and  
Think it is the Finest  
Place to Live in Our  
Great America

PHOTOS TOP LEFT: JOHN WORKING  
WITH AN 8020

LEFT: RANCH OPERATIONS REQUIRE A  
MODERN FLEET OF TRUCKS

BOTTOM LEFT AND BELOW: HEREFORD  
SCENES ON RANCHES

PICTURED AT LEFT IS APACHE MOON  
APPALOOSA STALLION NO. T-46-771

PHOTO AT RIGHT: HAYING TIME IS A BUSY  
PERIOD ANNUALLY

BELOW RIGHT: HEREFORD SCENES







ESTABLISHED 1929  
WITH 640 ACRES

NOW WITH 14,000 ACRES, WITH 4,600 ACRES  
UNDER CULTIVATION AND 240 IRRIGATED

STARTED FARMING WITH HORSES AS THE  
ONLY POWER — NOW USING COMPLETE  
MECHANIZED EQUIPMENT INCLUDING AN  
AIRPLANE FOR SPRAYING

BRAND  MARK

**WILLIAM HARMON FARMS, Inc.** . . . . .  
WILLIAM AND GLADYS HARMON AND SONS — SIX MILES SOUTH OF BAINVILLE, MONTANA — PHONE 769-2126

★ **COMMERCIAL ANGUS CATTLE**      ★ **HAY AND SMALL GRAINS**

★ **COMMERCIAL TARGEE SHEEP**

Now Developing a New Home Feed Lot  
Which Will Handle 500 Head of Cattle  
With Fully Mechanized Feeding Facilities

Pictures Show Main Ranch Buildings and Scenes Around Our 14,000 Acre Cattle & Sheep Ranch

**LET'S BUILD THE TREASURE STATE TOGETHER!**

135







ABOVE: AIRVIEWS OF DOWLIN-FULMER RANCHES NEAR FORSYTH

# MONTANA IS KNOWN AS THE "BIG SKY"

Montana is known as The Big Sky,  
Where everything's open to space  
Where Life is truly for living,  
Though not at a harried pace  
It's a land where grudge is no matter,  
And a promise, a word not forgot,  
Where friendship's a thing that is lasting  
Where pretense is a thing that's not.  
Montana has joy in its sunsets,  
Its morning star greets you as gay  
Carved on a rock is "God's Playground,"  
And, somehow He meant it that way  
He gave us the great shining mountains,  
He gave us the vast prairie scene,  
The red touch of rock on the hilltop,  
And the cedar and pine, evergreen.  
Yes, God gave us honor unmeasured,  
When He gave us this wild, gentle state  
Let us love and protect our Montana,  
Keep it clean, uncluttered with hate.  
Yes, let us keep it "God's Playground,"  
Unmarred by man's greed and his haste.  
Montana, we pray that forever  
The Big Sky will stay as it's placed  
—by Patty Kluver

THE POEM WAS WRITTEN  
BY PATTY KLUVER FOR  
MONTANA'S TERRITORIAL  
CENTENNIAL YEAR, 1964  
"PATTY" IS GENIE'S  
DAUGHTER

## DOWLIN FULMER RANCHES

35 MILES SOUTH OF FORSYTH, MONTANA

ARABIAN PINTO HORSES & COMMERCIAL HEREFORDS

41,000 ACRES WITH 600 UNDER CULTIVATION

GENIE FULMER



MARY DOWLIN



ABOVE: SENATOR CHARLES  
MORRELL DOWLIN

41,000 Acres Devoted to the Breeding and Raising of Some of  
Montana's Finest Herefords

PROUD TO BE A PART OF MONTANA'S CATTLE INDUSTRY

Cattle and Horse People Are Always Welcome

Home of Windy Weather — Arabian A-14777



PHOTOGRAPH AT RIGHT IS GENIE AND DAUGHTER





MAC PHILBRICK'S . . .

# DIAMOND RANCH

36 MILES SOUTH OF FORSYTH, MONTANA  
ON THE ROSEBUD RIVER

★ **COMMERCIAL HEREFORDS** ★

36 SECTIONS OF  
LAND WITH 500 ACRES  
CULTIVATED HAYLAND

VISITORS  
WELCOME . . .

SHORT STORY ON RANCHES FEATURED ON  
THIS PAGE AND PAGE 136 OPPOSITE

Mary Howard, who had come from Maine to her father's newly established ranch in eastern Montana in 1884, was scarcely more than a child bride when she married Freeman Philbrick in Miles City in 1887. They went to live on 160 acres in a one-room log cabin with earth floor and roof on Rosebud Creek. Relaxed, gentle and cultured, she was ill fitted for the rugged life she faced yet she met every contingency over a period of seventy years. Freeman Philbrick had come also from Maine in 1885 to work on the Howard Ranch.

This illustrious couple bequeathed to their son and two daughters a splendid heritage—an example of self denial and sacrifice in the attainment of a goal, and an empire of land and livestock. The Philbrick's 160 acres were eventually extended to embrace 70,000 acres. Each of their children now own about a township of the original lands.

Genie Philbrick, one of the daughters, married Charles M. Dowlin. He represented his county in the State Senate and was a three-term president of the Montana Stockgrowers Association. He put together a large ranch and built a showplace home for his bride on Armell's Creek in Rosebud County but during the terrible thirties, in the midst of drought and depression, he died leaving his widow and two little girls burdened with debt.

Emulating her parents in courage and fortitude, with the help of her children and loyal ranch workers, Mrs. Dowlin set about redeeming her home and lands until today her ranches, including that inherited from her parents, cover about 40,000 acres. Her son-in-law, Red Kluever and daughter Patty, manage one of the ranches and Mrs. Dowlin, now Mrs. Fulmer, but again a widow, and her daughter Mary Dowlin manage another while a third is leased out. Cattle and horses are run on all the ranches. Four grandchildren, three boys and a girl, take an active part.

BRAND  
HD  
MARK

"Let's Build The  
Treasure State  
Together"

BELOW PHOTO OF MAC PHILBRICK TAKEN IN LATE 1965 THREE  
OLD TIME PHOTOS TAKEN ON THE RANCH MANY YEARS AGO

ABOVE: ORIGINAL LOG CABIN ON THE RANCH  
LEFT: MARY PHILBRICK, RIGHT: FREEMAN  
PHILBRICK, MOTHER AND FATHER OF MAC  
AND GENIE AND GENIE'S SISTER

PICTURES ABOVE AND BELOW SHOW HEREFORD CATTLE ON THE PLEASANT HILLS AND MEADOWS OF THE DIAMOND RANCH



ABOVE: CATTLE SCENE ON HOPE RANCH

LOCATED  
ON THE  
TULLOCK RIVER

**COMMERCIAL  
HEREFORD  
CATTLE**

RIGHT: AIR VIEW OF RANCH  
BELOW: AIR AND GROUND RANCH PICTURES



# HOPE RANCH

WALTER — RICH — LUCY

TEN MILES SOUTH OF  
BIG HORN, MONTANA  
ESTABLISHED IN 1910



## BRAND MARKS

LAH JAH  
TAH U H H H H  
X H J CLH



# PHILBRICK RANCH

Newell Philbrick Family  
FORSYTH,  
MONTANA

Cattle People Always Welcome



ABOVE: AIR VIEW OF MAIN RANCH  
BUILDINGS AT PHILBRICK RANCH



LEFT: NEWELL STANDS AT  
EASE WHILE CHECKING HIS  
OUTSTANDING HEREFORDS

**RAISING TOP  
GRADE HEREFORD  
CATTLE FOR  
THE NATION'S  
MARKETS . . .**



RIGHT: PHILBRICK HOME AND FINE HORSES  
HEADING FOR GRAZING

RIGHT: PHILBRICK HEREFORDS ENJOY COOL,  
CLEAN WATER THE YEAR AROUND







# DOUBLE CIRCLE RANCH

Established 1882  BRAND MARK

BIRNEY, MONTANA—PHONES  
MILES CITY — 784-2718  
SHERIDAN, WYO.—757-2391

Warren & Marian H. Brewster  
Donald and Frances Brewster  
Robert E. & Eula Ebeling

33,000 Acres With 200 Acres  
Under Cultivation Devoted to  
Breeding and Raising Fine  
Commercial Herefords



LEFT AND  
BELOW:  
BRANDING  
TIME AT  
THE 33,000  
ACRE  
DOUBLE  
CIRCLE  
RANCH

LEFT TOP  
TO BOTTOM:  
EBELING  
HOME  
BREWSTER  
HOME  
YOUNGSTERS  
ON RANCH  
HEREFORDS  
EVERY-  
WHERE'



# CHERRY CREEK SHEEP CO., Inc.

SIVERT MYSSSE.  
President

110,000 Acres  
Of Grazing  
Land In  
Rosebud County  
Devoted To  
Breeding and  
Raising  
Commercial  
Columbia  
Sheep  
Located on Por-  
cupine Creek  
About 35 Miles  
Northwest of  
Forsyth, Mont



WINTER SHEEP PHOTOGRAPH—SHEEP AS FAR AS THE EYE CAN SEE  
PICTURE COURTESY OF MONTANA WOOL GROWERS ASSOCIATION  
PICTURES BELOW: AIR VIEW AND HAY SCENES TAKEN AT CHERRY CREEK SHEEP COMPANY, INC.



BELOW: HUGE CONTOUR  
IRRIGATION PROJECT ON  
CHERRY CREEK SHEEP LAND



# FARLEY HEREFORD RANCH

Phone Colstrip 7 — 35 Miles Southwest of Forsyth, Montana

LEO AND BURTON FARLEY

## WHAT MONTANA PRODUCES AND MAKES MAKES MONTANA!



WORKING WITH  
CATTLE AND  
HORSE BREEDERS  
TO BUILD A  
BETTER FUTURE  
FOR OUR STATE



ABOVE AND BOTTOM: AIR VIEWS  
OF FARLEY OPERATIONS

40,000 ACRES WITH 4,000  
ACRES UNDER CULTIVA-  
TION. HEREFORDS AND  
QUARTER HORSES

VISITORS ALWAYS  
WELCOME



BRAND MARK

SEMI-ANNUAL  
SALES  
BULLS AND  
FEMALES  
MAY AND  
NOVEMBER  
EVERY YEAR



Registered and Commercial Herefords For Range Trade ★ Registered Quarter Horses







AIR VIEW OF MATOVICH RANCH

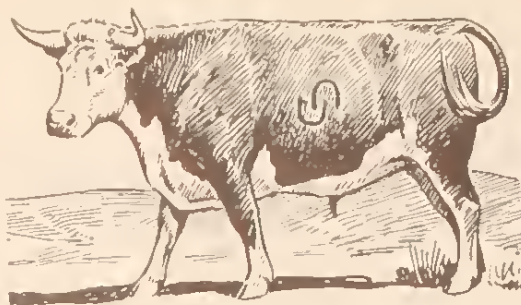
MARTIN  
AND  
EDITH  
MATOVICH

DIAL  
673  
4145

BRAND



MARKS



JOHN  
AND  
ROSE  
MATOVICH

DIAL  
673  
4141

BRAND



MARK

## THE MATOVICH RANCHES

60 MILES SOUTH OF MALTA, MONTANA

The Old Long X Ranch, at one time one of the largest cattle outfits north of the Missouri River, originally was established in 1902 by three Reynolds brothers of Texas. Forced by drouth out of Texas, the first trail herd of 6,000 head of cattle was brought across the Missouri River that year. For a number of years thereafter herds were pointed north to the Long X. In addition to up to 10,000 cattle, about 1,500 horses were run on the range.

Headquarters for the cattle spread was a 160-acre homestead filed on by Norval Wallace, Long X foreman, and a 160-acre tract purchased from Lally Doney.

The hard winter of 1906-07 was disastrous for the Long X. About 40 per cent of the cattle were lost in that long bitterly cold winter. Losses also were talked when the cattle crossed the Missouri in the spring and drowned in the swollen stream.

An average of ten men were employed at the ranch. Among the trail drivers was Tex Allord who boasted of seven trail rides from Texas to Montana—though probably not all for the Long X. Charlie Stuart, son of Granville Stuart, and a character known as Snakehead Gilbert cooked for the crew during a number of years when it was a womanless ranch. Walt Coburn has written many interesting stories of cowboy life which included this ranch, as did Charlie Russell. Russell painted a picture of a group of cowboys roping a bear. One of the cowboys whose loop was on the bear was Joe Reynolds, one of the owners of the Long X. This famous picture Russell named "Loops and Swift Horses are Surer than Lead."

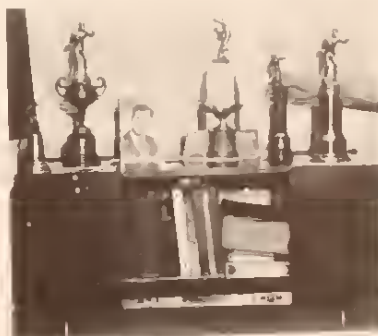
The Reynolds Cattle Co. closed out their holdings in northern Montana in 1915. Joe Reynolds passed away several years ago. Frank Reynolds lives in Dodson, Montana. Frank can tell many a tale about the old time cowboys and can still play a pretty liddle tune. A son of Joe Reynolds, Joe Jr., also lives at Malta, Montana.

Martin Matovich bought the Long X in 1950. Martin was born and reared in Petroleum county near the mouth of the Musselshell River. Before purchasing the Long X, Martin had been associated with his brother John, in the old Proudly Ranch which is joined on the east by the Long X



JOHN AND ROSE MATOVICH ON FAVORITE HORSES WITH RANCH SCENE ABOVE LOCATED ON FOURCHETTE CREEK

**COMMERCIAL  
HEREFORDS**  
Ranch Located  
On  
Valentine  
Creek



MARTIN'S BOXING TROPHIES



JOHN WITH HIS 1938-1939 BOXING TROPHIES  
EIGHT STATE CHAMPIONSHIPS IN LIGHT  
AND HEAVYWEIGHT BOXING

23,000 ACRES WITH  
400 ACRES OF HAYLAND  
COMMERCIAL HEREFORDS  
CATTLE AND HORSE PEOPLE  
ALWAYS WELCOME TO DROP  
IN AND LOOK OVER OUR  
RANCH AND LIVESTOCK  
WESTERN HOSPITALITY

LEFT: MARTIN, EDITH AND THEIR  
SON, BILL MATOVICH

DAUGHTER KAREN

DAUGHTER MARILYN

DAUGHTER HELEN

SON JOHN JR



LEFT: FEED LOT  
SCENE ON  
MATOVICH RANCH



HEREFORD SCENE ON MATOVICH RANCHES



ABOVE: RAYMOND, MARGARET & SONS

# WILLIAMS RANCHES

Edgar and Frances Williams — Francis B. Williams

Raymond and Margaret Williams and Family

Established 1884

Six Miles West of

LANDUSKY, MONTANA

ON BULL CREEK — DIAL 673-4252

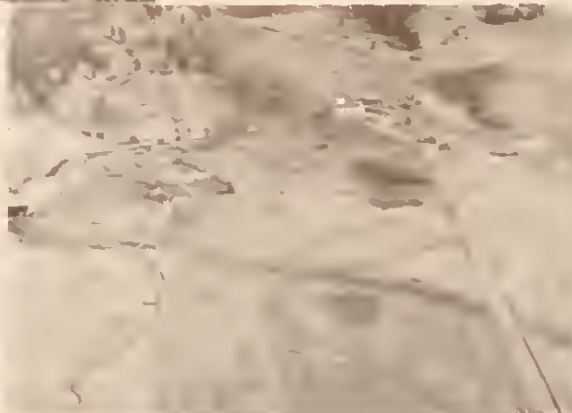


AIR VIEW OF HOME RANCH

WILLIAMS  
BRAND  
MARKS

WZ ZA

RIGHT: AIR VIEW OF RAYMOND'S RANCH



COMMERCIAL HEREFORDS AND ANGUS AND PUREBRED HEREFORDS

EDGAR AND FRANCIS ON THEIR  
PUREBRED HEREFORD SPREAD



EDGAR'S SON ON HIS FAVORITE HORSE



RIGHT AND BOTTOM: WILLIAMS CATTLE  
SCENES SHOWING CROSS-BRED CATTLE,  
HEREFORD AND ANGUS



20,000 Acres  
With 300 Irrigated  
And 600 Acres  
Cultivated For  
Small Grains  
And Hay

HOME RANCH BRAND MARKS EW — DC

LEFT AND BELOW: PUREBRED HEREFORDS







# CORNWELL RANCH

WALTER AND HOWARD CORNWELL

15 MILES NORTH OF GLASGOW, MONTANA ON BUGGY CREEK — ESTABLISHED IN 1892

QUALITY FEEDER CATTLE — FINE QUARTER HORSES

PHOTO RIGHT: RANCH TODAY  
NEXT THREE PHOTOS BELOW  
SHOW HEREFORD SCENES ON  
35,000 ACRE CORNWELL  
RANCH



- ★ **COMMERCIAL HEREFORDS**
  - ★ **REGISTERED QUARTER HORSES**
  - ★ **SMALL GRAINS AND HAY**
- 35,000 ACRES WITH 1,500 ACRES  
CULTIVATED AND 500 ACRES  
IRRIGATED**



BRAND  
MARKS

CATTLE



HORSES



PHOTO LEFT:  
SUPERB BLUE  
P-167293  
SIRE SUPER  
CHIEF P-55455



**Boost the  
Big Sky  
Country!**

PHOTOS BELOW  
SHOW ROLLING  
HILLS AND TOP  
COMMERCIAL  
HEREFORDS AND  
FINE HORSES  
—ALWAYS!



AT LEFT: OLD TIME RANCH  
IN 1915

**CATTLE AND  
HORSE  
ENTHUSIASTS  
ARE ALWAYS  
WELCOME**



143





AIR VIEW OF RANCH

# SIMONSON Ranch

SEVEN MILES  
EAST OF  
WHITEWATER,  
MONTANA



VIEW OF RANCH MAIN BUILDINGS RANCH WAS ESTABLISHED BY S. A. AND ELLA SIMONSON

◀ **FINE COMMERCIAL  
BEEF CATTLE** ▶  
**WHEAT and BARLEY**



HORSES PLAY AN IMPORTANT ROLE IN THE 10,000 ACRE OPERATION



AIR VIEW OF STRIP FARMING

THE SIMONSONS — ROGER, REE, LEROY,  
LYNN, DAN & JO ANN. PICTURED AT RIGHT,  
WELCOME YOU TO THE SIMONSON RANCH



PHONE  
674-3161

Established  
In  
1912



"HIGH ON A WINDY HILL," HEREFORD CATTLE SCENE

ANGUS CATTLE SCENE



MODERN EQUIPMENT FOR WHEAT AND BARLEY PRODUCTION





# Rush Hall and Sons

RUSH AND EVLITA HALL

Ten Miles Northwest of Baker, Montana — Dial 778-2303

15,500 Acres With 800 Acres Cultivated

Commercial Hereford and Angus Cattle

Registered Appaloosa Horses

Helping Boost the Great Eastern Montana Production Land

ABOVE: AIR VIEW OF RANCH

LEFT: REGISTERED  
APPALOOSA  
WHITE LUCKY  
T 37, 497

ANGUS AND COMMERCIAL CATTLE

BRAND SIGN AT RANCH ENTRANCE

CATTLE AT PLEASANT OASIS

ABOVE: AIR VIEW OF RANCH

THE HALL FAMILY  
WELCOMES YOU

## BAKER, MONTANA . . . The Friendly Eastern Gateway To The Big Sky Country

Baker, Montana's fastest growing city, is located in the south-eastern corner of the Treasure State just 13 miles from the North Dakota state line. U. S. Highway No. 12 runs east and west through the heart of Baker where a junction with State Highway No. 7 is made. The Lake City is situated on the main line of the Chicago, St. Paul and Milwaukee Railroad. Skirting the heart of this booming city is man-made Baker Lake, which gives the younger generation hours of fishing fun and the more agile athlete an opportunity to try out his new water skiing gear. Baker homes are serviced with low rate natural gas, 1575 telephones (including 20 mobile phones), and newly installed paved streets with curbs and gutters.

Baker has four public schools including a new \$750,000 high school plant. A new athletic area for baseball and football is being built, plus a modern public swimming pool, all for the recreation minded. A school sponsored band provides evening music entertainment during the summer. Three active civic organizations, several fraternal groups, a number of modern churches, an up to date 25-bed hospital and new medical clinic round out the community's needs. Baker boasts 142 businesses including two banks with totaling over eight million, 5,000 watt radio at 960 on your dial and a newspaper with circulation of over 2,000.

Fallon County, of which Baker is the county seat, is the biggest

producer of oil in the State of Montana. 350 oil wells lie within 50 miles of Baker. Over 700,000 barrels are produced each month.

This area's cash crop consists principally of number one Dark Northern Spring Wheat, winter wheat and barley.

The abundant antelope (or pronghorn) makes its home within Fallon County which gives this area a favorite spot in the hunter's heart. Other game includes deer, pheasants, turkey, partridge, ducks, sage hens and some fishing.

South of Baker 21 miles is the eye-catching Medicine Rocks State Park. Long before the white man, the Indians used this area as a worshipping ground. Teddy Roosevelt called it his favorite camping site.

Fallon County still can boast of the rugged cowhand as over 20,000 head of Hereford and Black Angus cattle roam the vast prairie.

Huge oil storage tanks housing the crude oil produced in the Fallon County fields and operated by the Butte Pipe Line Company, lie eight miles west of Baker on Highway 12.

A grand time is to be had by old and young alike at the annual Fallon County Fair in August. Many interesting exhibits, rodeos, livestock shows and midway entertainment give the Fair that western taste.

AIR VIEW OF BAKER . . .

THIS PICTORIAL PRESENTATION BY COURTESY OF  
THE BAKER CHAMBER OF COMMERCE





ABOVE: AIR VIEW OF SHUMAKER RANCH  
BELOW AND CENTER: CATTLE SCENES



BRAND  
MARK

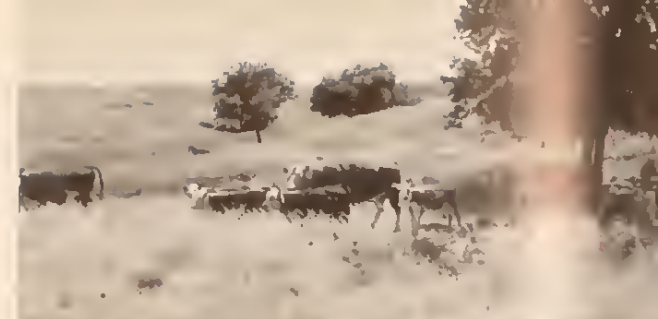


## SHUMAKER RANCH

P. J. SHUMAKER AND SONS

ESTABLISHED IN 1938 WITH 2½ SECTIONS

25 Sections of Land For Breeding and Raising  
Commercial Herefords and Cross Angus  
Mildred, Montana — 25 Miles Southeast of  
Terry, Montana



ABOVE: PART OF RANCH ON LITTLE WHITNEY CREEK  
BELOW: HORSES PLAY AN IMPORTANT ROLE ON  
THE HUGE RANCH



ABOVE: SCENE ON DIAMOND RING RANCH ON ONE OF  
400 IRRIGATED ACRES DEVOTED TO RAISING HAY  
HEREFORD SCENE ON DIAMOND RING

## DIAMOND RING RANCH

W. H. "BILL" AND "PEG" GRIEVE

TERRY, MONTANA — ESTABLISHED 1939 WITH 1,015 ACRES

Today, 1966, 40,000 Acres Devoted to Raising  
Commercial Herefords and Charlois Cross

HEREFORD AND CHARLOIS ENTHUSIASTS  
ALWAYS WELCOME

40,000 ACRES PRODUCING  
HARDY RANGE CATTLE

BRAND



MARK





# PALM RANCH CO.

NELSON PALM — JOHN WALLACE — JONNIE PALM

ISMAY, MONTANA

40,000 ACRES WITH 1,000 ACRES OF HAY LAND  
THE PALM RANCH CO. OF ISMAY, MONTANA URGES  
THE SUPPORT OF MONTANA RAISED BEEF . . .

VISITORS WELCOME!

U  
BRAND MARKS



PHOTOGRAPHS: PALM RANCH  
PICTURES TAKEN IN LATE 1965



ESTABLISHED  
IN 1944

## WYRICK RANCH

HAROLD A. AND SARAH WYRICK  
BAKER, MONTANA

★ COMMERCIAL HEREFORDS

13,000 ACRES WITH 1,400 ACRES  
CULTIVATED FOR RAISING HAY

BRAND  
MARK

VZ



PICTURE AT TOP RIGHT: WYRICK YOUNGSTER IS ONE OF HUNDREDS OF THOUSANDS OF MONTANA  
CHILDREN WHO ARE BOUND TO LOVE THE MONTANA WAY OF LIFE IN THE "BIG SKY COUNTRY"  
PHOTOGRAPHS SHOW RANCH SCENES AND WYRICK FAMILY GROUP PICTURE . . .



# ROMAIN BROTHERS

WHEAT AND CATTLE

Raymond Romain

Fort Benton, Montana

★ WHEAT AND CATTLE ★

CATTLE AND GRAIN  
PEOPLE CORDIALLY  
INVITED TO STOP  
AND LOOK OVER  
OUR OPERATION

RIGHT: MODERN MECHANIZED  
EQUIPMENT HELPS PREPARE OUR  
GRAIN FIELDS FOR TOP PRODUCTION



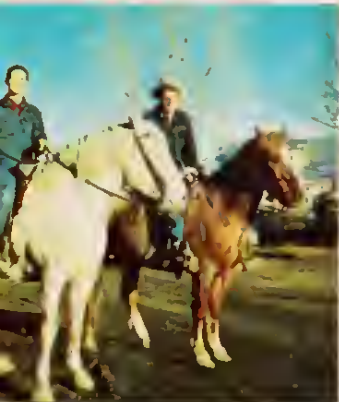
AIR VIEW OF CLARENCE ROMAIN RANCH  
30 MILES SOUTH OF CHESTER, MONTANA

CLARENCE AND MARIAN ROMAIN  
CHESTER, MONTANA — DIAL 359-2882

14,000 ACRES  
7,000 ACRES  
CULTIVATED  
GRAIN LAND

★ COMMERCIAL  
HEREFORDS ★

— PICTURES —  
MANY FINE HORSES CAN BE  
SEEN ON THE RANCH  
LEFT AND BELOW: ROMAIN  
YOUNGSTERS AND CATTLE  
PICTURES



CLARENCE ROMAIN FAMILY  
IN RANCH HOME



THE RAYMOND ROMAIN FAMILY INCLUDING THEIR  
DOG WHICH IS PRACTICALLY A MEMBER  
OF THE FAMILY

SCENES AT  
RIGHT ARE  
OF OUR  
FINE CATTLE

BELOW  
RIGHT:  
AIR VIEW  
OF THE  
RAYMOND  
ROMAIN  
HOME AND  
RANCH  
BUILDING

BELOW:  
RANCH  
PICTURES OF  
HARVESTING  
AND CATTLE





CATTLE

LX  
H

BRAND MARKS

HORSES



# HARRIS

## LAND and CATTLE Co.

HIGHWOOD, MONTANA  
Dial 2019  
5 Miles South on Highwood Creek

LEFT AND TOP  
RIGHT: AIR VIEWS  
OF HARRIS LAND &  
CATTLE COMPANY

12,000 Acres Deeded  
Land  
9,000 Acres Pasture  
Land  
3,000 Acres Small  
Grains and Hay



PLEASANT HARRIS RANCH HOME  
VISITORS WELCOME



MR. H. HARRIS STANDING NEAR HIS  
UNUSUAL HEREFORD SIGN



MR. AND MRS. HARRIS' DAUGHTER, MARJORIE LYNCH AND HER  
THREE CHILDREN, CAROLYN, VALERIE AND SON DORAN

COMMITTED TO THE PRODUCTION OF **TOP FLIGHT COMMERCIAL HEREFORD CATTLE**

COFFEE IS ON!

RANCH WORK

149

FINE HEREFORDS ON RANCH

A GOOD CLEAN DRINK HELPS

HEREFORDS POSING





# ROBERTSON RANCH CO., INC.

SIX MILES WEST OF CARTER, MONTANA  
DIAL 734-2627

★ BUY MONTANA BEEF ★  
WILLIAM F. ROBERTSON  
OWNER

8,000 ACRES WITH 6,800 IN GRAIN

**COMMERCIAL HEREFORDS AND MODERN FEED LOT**

★ **WHEAT** ★ **7,000 CULTIVATED ACRES PLUS RANGE LAND**

BELOW: SERVICE BUILDING AND STORAGE TANKS

BEEF FOR THE NATION'S MARKETS



WE HANDLE BETWEEN  
500 AND 700 HEAD  
IN OUR FEED LOT  
MODERN EFFICIENT FEED LOT



## EDWARD W. MOES BIG SANDY, MONTANA

FARM MATERIALS HANDLING SPECIALIST

Madison Silos • Mechanized Forage Handling Equipment

Realize More Profit From Crops Produced

Stabilize Your Cow - Calf Operations

Better Utilization of Available Forage

Labor and Operating Costs Greatly Reduced

This Ed Moes Operating Ranch Will Demonstrate Under Actual  
Conditions the Equipment That Can Be Used to Double

Any Farm or Ranch Potential

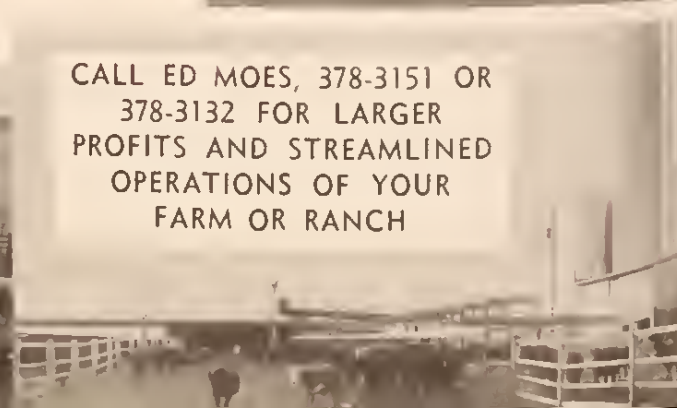
Come See Our Set-up and be Convinced that You Can Accom-  
plish Twice as Much with the Amount of Land and Livestock  
You Now Have

PHONE  
378-3151

BADGER  
FARM  
ENGINEERED  
EQUIPMENT



PICTURES DEPICT SCENES OF MOES OWN OPERATING RANCH WHERE EQUIPMENT CAN BE SEEN IN ACTUAL OPERATION 150



CALL ED MOES, 378-3151 OR  
378-3132 FOR LARGER  
PROFITS AND STREAMLINED  
OPERATIONS OF YOUR  
FARM OR RANCH





**YOU'LL FIND . . .**



**SCHROEBER FEED LOT . . .**



**A GOOD PLACE TO DO BUSINESS . . .**



## **SCHROEBER FEED LOT**

**REUBEN & ALICE SCHROEBER  
TERRY, MONTANA  
PHONE 637-5568**

**Working With  
Progressive  
Cattlemen  
In Eastern  
Montana!**

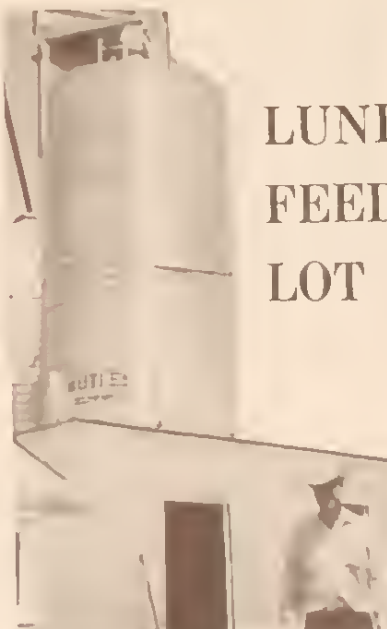
**PURCHASING LOCAL  
MONTANA FEEDS**

**SELLING TO LOCAL  
PACKERS**

**FOR QUALITY ALL THE  
WAY BUY MONTANA  
BEEF**



151



## **LUND FEED LOT**



**RONALD AND ELINORE LUND, TERRY,  
MONTANA — FEEDING 2,000 HEAD  
PHONE 637-5302**

## **BUY MONTANA BEEF!**

**Helping Build a Greater  
Montana Industry**





BRAND  
MARK



DIAL  
737-4251

## MURPHYS' BIG SAG RANCH

JOE AND JEAN MURPHY

Ten Miles Southwest of Geraldine, Montana  
In the Foothills of the Highwood Mountains of Central Montana



ABOVE: JEAN AND JOE MURPHY WITH CHILDREN, MICHAEL, MARGARET AND LACHLAN

### MURPHYS' BIG SAG RANCH

M. J. (Joe) Murphy, born and raised on a ranch at Boulder, Montana, has ranched over most of Montana. He purchased the Big Sag Ranch, an old time Montana ranch, in 1955 and moved there with his wife, Jean, and three children, Margaret, Lachlan and Michael in 1956.

One of the best mountain valley ranches in Montana, the Big Sag has consistently shipped top grade cattle to eastern buyers. The ranch totals over 20,000 acres, 14,000 deeded and about 6,000 under lease. Approximately 2,500 acres of land are under cultivation, producing high quality wild hay. Commercial Angus cattle stock the ranch.

The ranch is a family affair with all members taking an active and interested part in the work from calving in the spring to the roundup in the fall, followed by winter feeding.



PICTURES SHOW  
MURPHY FAMILY  
ASTRIDE FAVORITE  
HORSES

RIGHT: ANGUS CATTLE  
ON THE RANCH



## B. M. PHILLIPS RANCH

HEREFORD  
AND  
ANGUS  
CATTLE

Landusky,  
Montana

ABOVE AIR VIEW OF THE B. M.  
PHILLIPS RANCH



### BY MR. AND MRS. PHILLIPS

The B. M. Phillips Ranch, located in the heart of the Little Rockies five miles south of Landusky, is owned and operated by Mr. and Mrs. B. M. Phillips.

The ranch consists of several thousand acres of deeded and leased land that run several hundred head of Hereford and Angus cattle. The ranch has large irrigated meadows that produce several hundred tons of alfalfa and wild hay.

B. M. Phillips is the son of the late B. D. Phillips, a prominent stockman and State Senator from Phillips County was named. Mr. and Mrs. B. M. Phillips who reside at their ranch home south of Landusky, have also been prominent in county and state affairs. Mrs. Phillips has worked many years trying to help the Indians to become self supporting. She also was elected to the State Senate in 1949.

The Ben Phillips are always too busy to take vacations though they advocate seeing Montana, the Big Sky Country first. They have three children, 2 sons, Arthur and Lawrence, and one daughter Beinnie, besides several grandchildren.



TOP RIGHT: MR. AND MRS. B. M. PHILLIPS CATTLE CUTTING OUT AND SHIPPING TIME

CENTER RIGHT: B. M. PHILLIPS IS A RECOGNIZED STOCKMAN THROUGHOUT MONTANA AND HAS ALWAYS BEEN INTERESTED IN THE MINING INDUSTRY IN THE STATE

LOWER RIGHT: A SPRING SCENE IN MRS. PHILLIPS ROCK GARDEN AT HER RANCH HOME

LEFT BELOW: BEN PHILLIPS IS ALWAYS PRESENT DURING CUTTING OUT TIME, WHEN THE COWBOYS ARE BUSY HELPING HIS SON ARTHUR, TAKE CARE OF THE CATTLE

CENTER BELOW: TRUCKS LEAVING FOR LIVESTOCK MARKETS IN VARIOUS CATTLE CENTERS







AIR VIEW OF BRATTEN RANCH

# BRATTEN RANCH

WAYNE AND RUTH BRATTEN  
WINNETT, MONTANA DIAL 429-4200

45,000 Acres With 400 Acres Irrigated  
For Raising Fine Commercial Herefords

Wayne Bratten — A Booster For Montono  
Post President of the Montono Stockgrowers Association

Ruth Bratten Another Ardent Montono Booster  
and Active Member of Montono Cowbells  
Maintaining a Herd of 1,000 Herefords

BRAND  MARKS



ABOVE AND BELOW  
HEREFORD PICTURES TAK-  
EN ON BRATTEN RANCH



# E. S. BAR RANCH

E. S. ELIASSON — ESTABLISHED IN 1939

23,000 ACRES WITH 3,000 ACRES CULTIVATED

WHEAT — BARLEY — HAY

COMMERCIAL SHEEP — COLUMBIA & RAMBOUILLET  
COMMERCIAL HEREFORDS

ROUNDUP,  
MONTANA

BRAND  
X  
SHEEP



ABOVE: LARGEST LOAD OF WOOL DELIVERED TO  
BELLE FOURCHE IN 1964, 117 BAGS WEIGHING  
42,000 POUNDS



VISITORS  
WELCOME

ALL PHOTOGRAPHS TAKEN ON RANCH IN FALL  
OF 1965 EXCEPT WOOL LOAD PHOTO

BRAND ES— MARK  
CATTLE





ABOVE: AIR VIEW OF WILSON RANCH

Morvin and Evelyn Wilson 67 Miles  
Southwest of Chinook on  
Anderson Creek

ANGUS AND HEREFORD  
COMMERCIAL CATTLE

## HOMESTEADER GALLOWAYS

**JERLAY FARMS  
BOZEMAN, MONTANA**

For Pictures of Jerlay Farms  
See Page 113

BELOW: GALLOWAY BULL, ONE OF OUR HERD Sires  
63-P-37 OF H. G.



**DONALD & ROBERT  
BOS**

Offer Excellent  
Breeding Service By



**CURTISS BREEDING  
SERVICE**

Over a Large Part of South  
Central Montana

FOR PICTURES OF BOS AND SONS DAIRY FARM SEE PAGE 110



ABOVE: HARVESTING SCENE

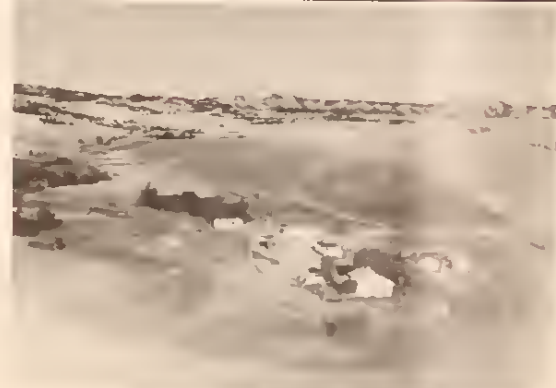
## GENE T. ASHENHURST RANCH

BRAND



32 Miles Southwest of Forsyth, Montana  
GENE AND DOROTHY

★ **COMMERCIAL HEREFORDS** ★  
**WHEAT --- BARLEY --- HAY**  
20,000 Acres With 8,000 Cultivated  
Running 1,000 Head Of Herefords



AIR VIEW OF RANCH

LEFT, BELOW: "COOLING OFF" BELOW: GENE WITH CATTLE



TOP GRADE COMMERCIAL HEREFORDS



RANCHING IS ONE OF MONTANA'S CHIEF SOURCES OF INCOME.  
COUPLE SURVEY THEIR RANGE



A CLOSE-UP OF A BAND OF MONTANA  
SHEEP SHOWING THE "WOOLIES" TYPE  
OF BRAND.



LEFT—COWBOYS STILL RIDE MONTANA RANGES WHERE FINE WESTERN  
HORSES HELP IN THE TRADITIONAL WORK OF ROUNDING UP CATTLE.

Montana Highway Commission Photos

CO-OP SUPPLY, INC., WELCOMES YOU TO THE MISSION VALLEY



ANGUS CATTLE — DAIRY CATTLE — HEREFORD CATTLE — SUGAR BEETS —  
AND ALL OF THE MANY DIVERSIFIED CROPS DO BETTER IN LAKE COUNTY



LEFT: CO-OP  
SUPPLY, INC.,  
TAKES JUSTIFIED  
PRIDE IN THE  
AREA'S MANY  
FINE YOUTH  
ORGANIZATIONS  
BELOW: LARGE  
STOCKS —  
CONVENIENTLY  
DISPLAYED MAKE  
SHOPPING EASY



BELOW: MAIN  
OFFICE AND STORE  
AT RONAN —  
BRANCHES AT  
CHARLO AND  
ST. IGNATIUS



Let's  
Cooperate  
For The  
Prosperity  
Of Our  
Valley  
At The

CO-OP SUPPLY,  
INC.

## CO-OP SUPPLY INC.

A COMPLETE SHOPPING  
CENTER AT  
RONAN, MONTANA

Petroleum Products  
Household Wares  
Hardware and Paint  
Appliances Both Large  
and Small  
Irrigation and Pump  
Supplies  
Automobile, Truck and  
Tractor Accessories  
AG Chemicals  
Power Tools

COMPLETE ON THE FARM  
TIRE SERVICE

FOR FREE BULK DELIVERIES AND TIRE  
SERVICE DIAL

Ronan 676-2201 — St. Ignatius 745-3154  
Charlo 644-2605



COME VISIT US  
FOR INFORMATION  
ANYTIME . . . SEE  
LOCATION ON AIR  
VIEW OF RONAN  
AT LEFT





## BUILDING A GREATER MONTANA THE COOPERATIVE WAY

Submitted by the Montana Council of Cooperatives

From the time families joined together and obtained a wagonmaster to lead them west, the history of Montana and of cooperation have been one and the same.

Since the wagon train, probably no other economic enterprise has provided more towards the development of our state than businesses operated on the cooperative basis.

Few will remember the barn-building bees of early Montana settlers, but from such cooperative ventures as these have developed rural electrification, rural telephones, grain elevators, oil companies, grocery stores and a multitude of other cooperative enterprises.

The role of the cooperative in Montana is a role of partnership. Hand in hand the two have grown together. There is hardly a Montana resident today whose life has not been benefited by the role of cooperatives in our everyday life. Built on a truly democratic tradition of one vote for each member, regardless of his activity in the cooperative, Montanans have learned to work together for mutual benefit in a number of ways.

The west and Montana were settled rapidly only through cooperative action. Our forefathers recognized that only by working together could we achieve progress.

From the "Westward-Ho" to the barn building, cooperative enterprise developed the harvesting of crops to insure that a neighbor would not lose his livelihood through an early frost, women gathered for quilting bees, and hundreds of other activities were the result of working together.

As time passed, new ways of working together in the cooperative spirit were developed and have helped to build the economy of our state, bringing new services to our people, providing new jobs for our young jobseekers and keeping many of our funds at home for the benefit of Montanans.

In recognizing the need for cooperative techniques and philosophies, the founders of our nation, which has grown to become the greatest ever known to mankind, wrote and adopted into our constitution safeguards for the rights of life, liberty, and the pursuit of happiness, which necessarily carry with them the rights of individuals to do business in various forms within the framework of these constitutional outlines.

Individual proprietorships, partnerships, corporations and cooperative corporations, all fit into our free enterprise system and in fact complement one another. All fit the role for which they were designed in true American tradition, outstanding examples of the great American way.

Our first schools came about through cooperative effort. Families realized the need for education for their children. By joining together they were able to obtain the services of a teacher. From these humble beginnings, generally in a sod hut or log cabin, our school district system grew until today Montana has an education system of which all can be proud and which with sound leadership will grow and continue to hold a leading place among the schools of the world and nation.

Rural areas have received electricity as the result of cooperatives bringing electrical service to areas where private power companies did not wish to operate. In turn, this brought a demand for new electrical appliances and the businesses on the main streets of our cities and towns thrived. First, the electrical contractor wired the rural home. The farm wife purchased washers and dryers, electric irons and hundreds of other labor-saving devices. Electricity eliminated the windmill or the hand pump and all important, it soon brought running water to the rural home and has forced the hardship of winter, in the form of the outhouse, from the Montana scene.

Modernization meant the farm family was able to take advantage of more leisure time. They began to patronize more of the businesses and entertainment centers in the towns and their businesses grew.

Rural telephones brought the rural family in closer contact with the city dweller, and the interchange of social activities increased. In these two cooperative services alone Montana's business has received a post-war shot in the arm. They alone have probably been the single largest contributors to a stable economy since World War II in our smaller cities and towns. And it in turn has meant more business for the wholesalers in the larger distribution points.

Here again, this has meant more jobs that provide people with more money which they can spend in demanding more services in their own cities and the economy continues to expand.

For years, farm cooperatives led the field in the cooperative movement. Farmers organized to purchase their farm supplies and passed on the savings to themselves in patronage dividends. They expanded this into the field of farm market sales attempting to alleviate the problem whereby they were neither able

to control the prices they paid for the goods they purchased, nor did they have any control over the prices they received for their products. Farm elevator cooperatives have helped to correct this inequity and the savings have stayed in the community where other businessmen have received the benefit of additional farm income being spent locally.

Today the cooperative has spread far beyond these rural or agricultural levels.

Almost everyone has heard of savings and loan associations where citizens save together and pool their resources in loans that have built millions of homes across the nation. This has been a boon to the construction industry, providing jobs for carpenters, bricklayers and many others in the labor field.

Credit Unions help to teach their members the need for thrift and planning ahead. They also provide an access for funds during times of sudden financial difficulty, the members helping each other while helping themselves.

Business has learned from the cooperative methods of the farmers, the laborers, the savings and loan associations, and others. The cooperative technique and philosophy is now employed in practically every field of endeavor.

The lumber yards now have cooperative centers where they pool their resources, buy products in wholesale quantity and increase their earnings or pass the savings on to the customers.

Groceries have learned that by working together they can obtain goods at far lower prices, which again can be taken in as a savings or passed on to the customer. With the lower prices, the customer has more to spend on other goods and other businesses accrue the benefits.

Through cooperatives, Montana has grown strong and healthy economically. Its lumber industry has benefited. Farmers benefit. City dwellers are aided. New jobs are created and people learn to work together in the healthy spirit of democracy.

Cooperatives are people working together to help one another. Where this fails, society fails. Montana can be proud of its heritage of cooperative growth. Its future will remain bright so long as its people continue to hold sacred this spirit of our founding fathers.



OUR GREATEST RESOURCE IS OUR YOUTH — LET'S KEEP MONTANA PROGRESSIVE AND HOLD THEM HERE

157





LEFT:  
HEADQUARTERS  
BUILDING  
EKALAKA,  
MONTANA

BELOW:  
BOX ELDER  
SUB-STATION, 14  
MILES SOUTHEAST  
OF EKALAKA

**SOUTHEAST  
ELECTRIC  
COOPERATIVE,  
-- INC. --**

DIAL 775-3222

EKALAKA,  
MONTANA

"USERS ARE  
THE OWNERS"

PRINCIPALLY  
FARM AND  
RANCH SERVICE  
IN PARTS OF  
CUSTER, FALLON,  
POWDER RIVER  
AND CARTER  
COUNTIES

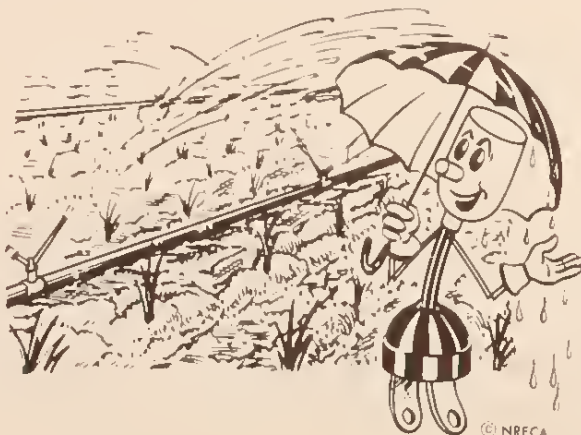
SERVICE IN ABOVE  
FOUR MONTANA  
COUNTIES AND  
PARTS OF  
THREE STATES

1300 Miles of Line  
1300 Electric Meters



SUB-STATION: 34.5 KV TO 14.4  
THIS STATION IS 14 MILES SOUTHEAST OF EKALAKA

**Willie Wiredhand**



© NRECA

**FERGUS  
ELECTRIC  
COOPERATIVE,  
INC.**

"OWNED BY THOSE  
WE SERVE"

3,391 CUSTOMERS  
2,881 MILES OF LINE  
IN 13 COUNTIES IN  
CENTRAL MONTANA  
SERVING HOMES,  
FARMS, INDUSTRY

WE HAVE AN ALL  
ELECTRIC RATE WITH  
EVERYTHING OVER  
1000 KWH PER MONTH  
BILLED AT 1c PER KWH  
SERVING 64 MISSILE  
LAUNCHING SITES

FIRST IN MONTANA TO  
OFFER A SPECIAL RATE  
FOR ELECTRIC HEATING

P. O. BOX 58  
DIAL 538-3465  
LEWISTOWN, MONT.



ABOVE: HEAD-  
QUARTERS BUILDING

GRASS RANGE HIGH  
SCHOOL—AN ALL-  
ELECTRIC SCHOOL  
WITH ALL-ELECTRIC  
HEAT. HAS BEEN  
COSTING APPROXI-  
MATELY 12 CENTS  
PER SQUARE FOOT  
PER YEAR SINCE IT  
WAS BUILT IN 1961

GILDROY MINE,  
ROUNDUP. 200 H.P.  
MOTOR DRIVES BIG  
DIRECT CURRENT  
GENERATOR TO  
POWER MINE  
LOCOMOTIVE,  
DRILLS. UNDER  
CUTTING MACHINE,  
LOADERS, ETC., TO  
MAKE THIS COAL  
MINE ALL ELECTRIC,  
ELIMINATING  
PRACTICALLY ALL  
HAND LABOR

HOME OF MR. AND  
MRS. WILLIAM  
KOZA, LEWISTOWN.  
A TYPICAL ALL-  
ELECTRIC HOME  
AND FARM HEAT  
COST AVERAGES  
APPROXIMATELY  
\$120.00 PER YEAR

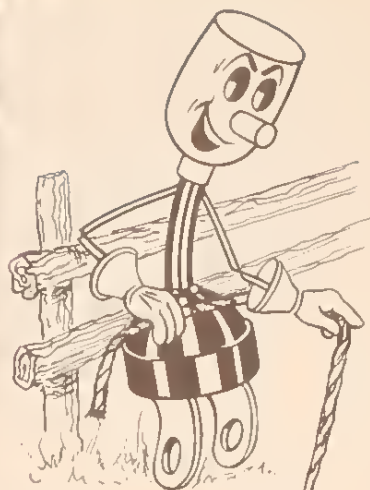
TIMBER LAND  
PACKING PLANT AT  
LEWISTOWN  
LOCALLY OWNED  
MEAT PACKING  
PLANT AND DEE'S  
CUSTOM  
BUTCHERING







NEW MODERN HEADQUARTERS BUILDING OF  
SHERIDAN ELECTRIC CO-OP., INC.



No character in American history has captured more interest than the cowboy of the plains of northeastern Montana now served by Sheridan Electric Co-op.

He was a man of vision, courage, and a canny business eye for the best grazing lands.

His glamorous era spawned another pioneer. These are the now older Sheridan Electric members who joined together to bring low cost central station electricity to their farms. While many "oldtimers" are still around who recall those early days of struggle to get their own electric lights a whole new generation has grown to manhood.

This new generation of Sheridan Electric members have not only accepted the concept of the total electric farm but are serving large commercial and industrial loads with very favorable rates.

This has been made possible by purchase of large blocks of low cost hydro-power and more recently participating in what may very well be a whole new industrial development in this region—membership in Basin Electric's 200 megawatt Leland Olds lignite thermal power plant.

## SHERIDAN ELECTRIC CO-OP., Inc.

PACIFIC VEGETABLE OIL CORPORATION'S SAFFLOWER OIL PROCESSING PLANT AT CULBERTSON

MEDICINE LAKE, MONTANA  
59247

POST OFFICE BOX 227  
PHONE 789-2601

## McCONE ELECTRIC COOPERATIVE CIRCLE, MONTANA

LOCALLY OWNED  
LOCALLY OPERATED  
TAX PAYING  
INCORPORATED UNDER  
MONTANA LAW  
NOT A GOVERNMENT AGENCY  
ELECTRIC LIGHT AND HEAT  
POWER FOR FARMS & RANCHES  
POWER FOR INDUSTRY

Every Year We Get a Little Bigger,  
Do More Business—We are Pledged  
to Provide Service to Everyone in Our  
Area, Wherever and Whenever They  
Need it, and as Much as They Want

"The Day Will Come When electricity Will Be For Everyone as the Waters of the Rivers and the Wind of Heaven. It Should Not be Merely Supplied, but Lavished, That Men May Use it at their Will as the Air They Breathe."

—Emile Zola, 1885

BELOW: POWER FOR INDUSTRY AND GENERAL  
DEVELOPMENT



MODERN HEADQUARTERS  
BUILDING AT CIRCLE



POWER FOR OIL FIELDS



BELOW: McCONE ELECTRIC  
SUB STATION



BELOW: FARM, RANCH AND  
FEED LOT SERVICE

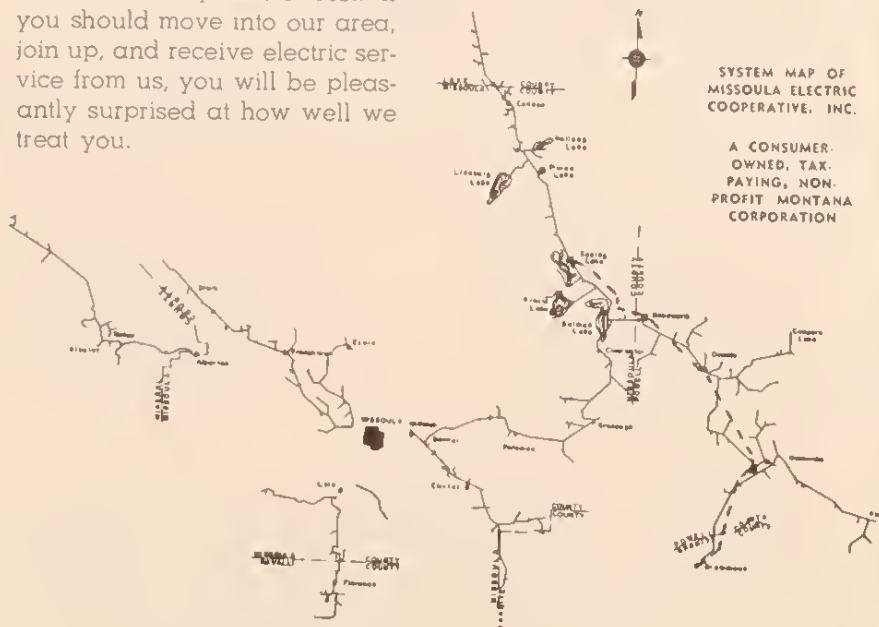




# MISSOULA ELECTRIC Cooperative INC.

The Consumer is King at the Missoula Electric Cooperative. He is one of the owners of the Rural Electric Power System, shown above, that serves him at the lowest possible cost. If you should move into our area, join up, and receive electric service from us, you will be pleasantly surprised at how well we treat you.

1950 Sherwood Street  
Post Office Box 1486  
MISSOULA, MONTANA  
59801  
Dial 547-7447



WE  
SALUTE  
THE  
YOUNGSTERS  
ON  
MONTANA  
FARMS  
AND  
RANCHES



PICTURES ON THIS SPREAD SHOW TYPICAL FAIR-TIME SCENES

THE MONTANA ELECTRIC COOPERATIVES TAKE  
PRIDE IN MONTANA'S FUTURE FARM AND  
RANCH OPERATORS AND THEIR MANY FINE  
ORGANIZATIONS AND PROGRAMS







ABOVE: HEADQUARTERS BUILDING IN CORVALLIS

THE RAVALLI COUNTY  
ELECTRIC COOPERATIVE  
WELCOMES YOU TO  
MONTANA'S MOST  
DIVERSIFIED VALLEY . . .

A MONTANA  
CORPORATION  
OWNED BY THE  
CUSTOMERS IT SERVES

## Ravalli County Electric Cooperative Inc.

CORVALLIS, MONTANA DIAL 961-3211

ESTABLISHED IN 1936  
FIRST LINES ENERGIZED IN 1938 WITH  
ABOUT 118 MILES OF LINE AND  
271 MEMBERS

1965

1305 Consumers — 492 Miles of Line  
1938 Investment \$ 125,000.00  
1965 Investment \$1,807,000.00  
1938 Revenue \$ 10,200.00  
1965 Revenue \$277,120.00

Your Co-op is constantly growing in size,  
efficiency and effectiveness to improve  
your standard of living

Electricity is important in all farming  
operations



ABOVE: BEEF CATTLE AS WELL AS DAIRY CATTLE. CHICKENS  
AND DIVERSIFIED FARMS ARE GOING CONCERNS IN OUR  
BEAUTIFUL BITTERROOT VALLEY



ABOVE: DAIRY FARMS PROSPER IN RAVALLI COUNTY  
BELOW: ELECTRIC PUMPING SYSTEMS SPELL THE DIFFERENCE!



ABOVE: POWER FOR INDUSTRY



BELOW: CHICKENS TOO, REQUIRE ELECTRICITY





ONE OF OUR NEW SUB STATIONS

# Glacier Electric Cooperative, Inc.

TELEPHONE  
938-4166



WILLIE WIREHAND

14 EAST MAIN  
Cut Bank, Montana

P. O. Box 358



VIGOROUS POWER  
VIGOROUS CLIMATE  
TOP PRODUCTION

Welcome to Glacier National Park and our Hospitable Gateway Communities



- SERVING
- ALL OF GLACIER COUNTY
  - EASTSIDE OF GLACIER NATIONAL PARK
  - LINES IN PARTS OF TOOLE, PONDERA AND FLATHEAD COUNTIES

We Service the Last Pole High in the Rockies as Carefully and Promptly as We Take Care of Nearby Consumers See Large Photograph at Left

WILLIE WIREHAND IS READY AND ABLE TO PROVIDE THE NECESSARY POWER FOR ANY NEW INDUSTRY LOCATING IN OUR SERVICE AREA...

RIGHT: AERIAL BUCKETS HELP US MAINTAIN PROMPT, EFFICIENT SERVICE

119 MILES OF HIGH VOLTAGE  
TRANSMISSION LINES  
1140 MILES OF DISTRIBUTION LINES

Contemplated Expansion Will Add Over 100 Miles of New High Voltage Transmission Lines to Serve the Ever Increasing Power Needs Of Our Area

WE SERVED AN AVERAGE OF 3898 CONSUMERS OVER THE PAST TWELVE MONTHS





# MISSOURI RIVER BASIN POWER SYSTEM

## TRANSMISSION LINES — REGION 6

FORT PECK POWER PLANT—DAWSON COUNTY SUB.

FORT PECK—HAVRE LINE

Fort Peck Power Plant—Richardson Coulee

Richardson Coulee—Havre Sub.

HAVRE SUB.—RAINBOW SUB.

FORT PECK—DAWSON COUNTY LINE

Fort Peck Power Plant—Wolf Point Sub. No. 1

Wolf Point Sub.—Circle Sub.

Circle Sub.—Dawson County Sub.

FORT PECK—WILLISTON LINE

Fort Peck Power Plant—Wolf Point Sub. No. 2

Wolf Point Sub.—Poplar Sub (MDU)

Poplar Sub.—Williston Sub.

DAWSON COUNTY—WILLISTON LINE

Dawson County Sub.—Lewis & Clark Steam Plant

Lewis & Clark Steam Plant—(MDU)—Richland Sub.

Richland Sub.—Williston Sub.

DAWSON COUNTY—MILES CITY LINE

Dawson County Sub.—O'Fallon Creek Sub.

O'Fallon Creek Sub.—Miles City Sub.

HAVRE—SHELBY LINE

Havre Sub.—Rudyard Sub.

Rudyard Sub.—Tiber Tap

Tiber Tap—Shelby Sub.

TIBER TAP—TIBER SUB.

DAWSON COUNTY SUB.—GLENDDIVE SUB.

Fort Peck Power Plant—Whately Sub.

O'Fallon Creek Sub.—Fallon Sub.

O'Fallon Creek Sub.—Fallon Relift Sub.

Fallon Relift Sub. Glendive Pumping Plant Sub.

MDU Line Tap—Terry Sub.

MDU Line Tap—Shirley Sub.

MDU Line Tap—Buford-Trenton Sub.

MDU Line Tap—Kinsey Sub. (b)

Williston Sub.—Lewis and Clark Sub.

Fort Peck Power Plant—Frazer Sub.

Frazer Sub.—Wolf Point Sub.

Valley Tap Line

Wiota Tap Line

Wiota Sub.—Northern Electric Sub.

Frazer Sub. Tap Line

Intake Pumping Plant Tap Line

Kinsey Sub.—North Line (b)

Kinsey Sub.—South Line (b)

Dawson County Sub.—Custer Sub.

Canyon Ferry Power Plant—East Helena "A"

Canyon Ferry Power Plant—East Helena "B"

## SUBSTATIONS REGION 6

Fort Peck—Miles City

O'FALLON CREEK

RAINBOW

RICHLAND

RUDYARD

SAVAGE

SAVAGE PUMPING PLANT

SHELBY

SHIRLEY

TERRY

TIBER

VALLEY

WHATELY (VALLEY C. REA)

WILLISTON

WIOTA

WOLF POINT

BUFORD-TRENTON

PUMPING PLANT

BUFORD-TRENTON REA

CIRCLE (McCONE CO. REA)

DAWSON COUNTY

FALLON PUMPING PLANT

FALLON RELIFT

PUMPING PLANT

FORSYTH

FRAZER

GLENDDIVE PUMPING PLANT

GLENDDIVE

HAVRE

INTAKE

KINSEY

LEWIS AND CLARK

CUSTER

CANYON FERRY

PUMPING PLANT

CROW CREEK

YELLOWTAIL CONSTRUCTION

SUB-STATION

EXISTING AND POTENTIAL  
PLANTS, FEDERALLY OWNED

NAME PLATE RATING IN MW

### MONTANA

1	Allenspur	250
2	Canyon Ferry	50
3	Fort Peck	165
4	Lyon	18
5	Yellowtail	250

### WYOMING

*1	Alicova	36
2	Bald Ridge	23
3	Boysen	15
4	Fremont Canyon	48
5	Glendo	24
*6	Guernsey	4.8
*7	Heart Mountain	5
8	Hunter Mountain	14.4
9	Kortes	36
10	Sheridan	25
*11	Pilot Butte	1.6
*12	Seminole	32.4
*13	Shoshone	6.0
14	Sunlight	15
15	Thief Creek	125

### COLORADO

*1	Big Thompson	4.5
2	Estes	45
*3	Floirron	71.5
*4	Green Mountain	21.6
*5	Morys Lake	8.1
*6	Polehill	33.25

### NORTH DAKOTA

1	Garrison	400
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### SOUTH DAKOTA

1	Angostura	1.2
2	Big Bend	468
3	Fort Randall	320
4	Gavins Point	100
5	Oahe	595

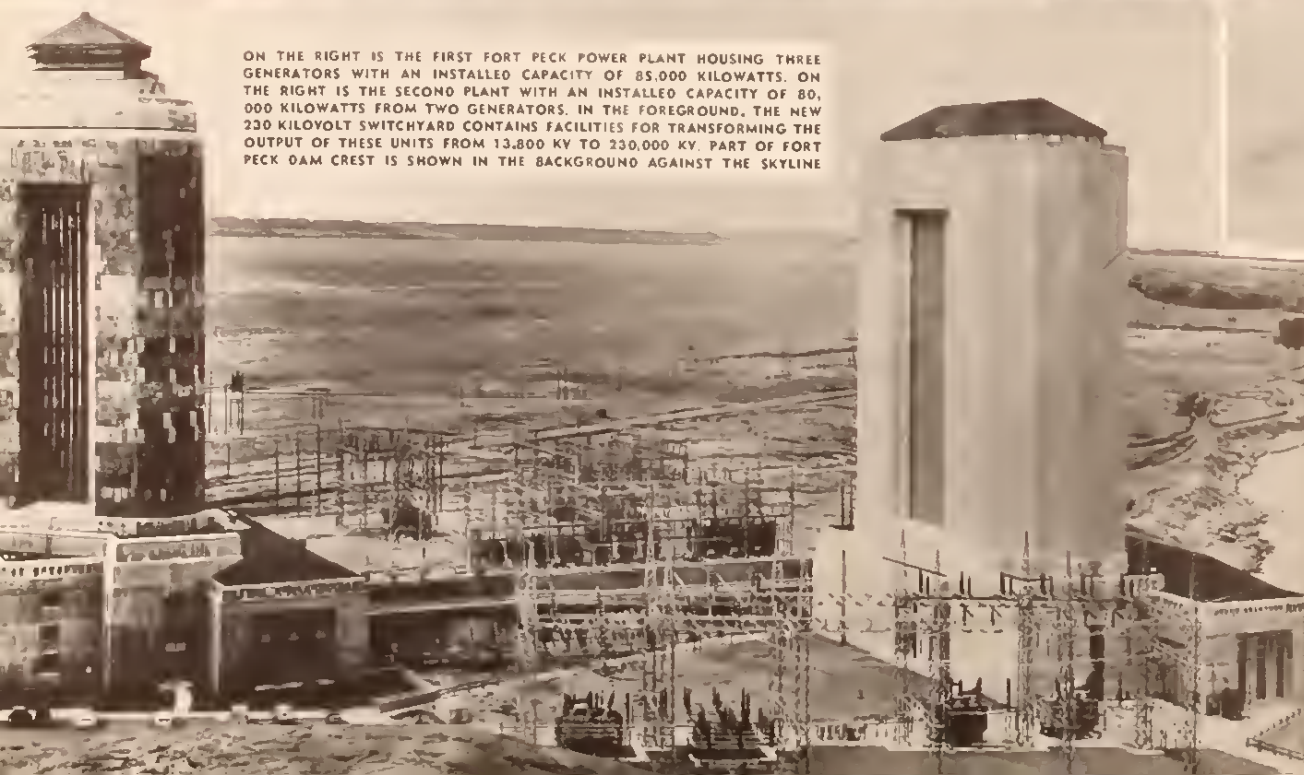
## MISSOURI RIVER BASIN POWER SYSTEMS



\* - Other than Missouri River Basin Project, but located in Greater Missouri River Basin Area

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

Revised December 1964  
Amended December 1965  
Revised and Rechecked by E. C. O'Brien, M. J. Smith, Jr.  
MAP No. R-17



ON THE RIGHT IS THE FIRST FORT PECK POWER PLANT HOUSING THREE GENERATORS WITH AN INSTALLED CAPACITY OF 85,000 KILOWATTS. ON THE RIGHT IS THE SECOND PLANT WITH AN INSTALLED CAPACITY OF 80,000 KILOWATTS FROM TWO GENERATORS. IN THE FOREGROUND, THE NEW 230 KILOVOLT SWITCHYARD CONTAINS FACILITIES FOR TRANSFORMING THE OUTPUT OF THESE UNITS FROM 13,800 KV TO 230,000 KV. PART OF FORT PECK DAM CREST IS SHOWN IN THE BACKGROUND AGAINST THE SKYLINE

## MONTANA DAMS NOW GENERATING FOR THE MISSOURI RIVER BASIN POWER SYSTEM

LEFT TOP: GENERAL VIEW OF YELLOWTAIL DAM AND POWER PLANT. THE 250,000 KILOWATT POWER PLANT AT THE TOE OF THE DAM, OCCUPYING NEARLY THE ENTIRE WIDTH OF THE RIVERBED IS NEARING COMPLETION. THE PLANT HOUSES FOUR 62,500 KILOWATT GENERATING UNITS THAT ARE TO BE DRIVEN BY FOUR 87,500 HORSEPOWER TURBINES SUPPLIED BY A PENSTOCK THROUGH THE DAM. THE FIRST GENERATING UNIT IS SCHEDULED FOR SERVICE IN SPRING 1966, WITH THE REMAINING UNITS SCHEDULED AT THREE-MONTH INTERVALS.

ABOVE, RIGHT: CANYON FERRY UNIT, CONSISTING OF A DAM, RESERVOIR AND POWER PLANT, LOCATED ON THE MAIN STEM OF THE MISSOURI RIVER NEAR HELENA, MONTANA WAS COMPLETED IN 1954. THE 50,000 KILOWATT CAPACITY CANYON FERRY POWER PLANT IS LOCATED ADJACENT TO SPILLWAY STILLING BASIN AT THE TOE OF DAM. THE PLANT HOUSES THREE 16,667 KILOWATT GENERATING UNITS, EACH DRIVEN BY A 23,500 HORSEPOWER TURBINE. CANYON FERRY LAKE, LYING BETWEEN THE BIG BELT AND ELKHORN MOUNTAINS, IS ABOUT 25 MILES LONG AND EXTENDS UPSTREAM TO TOWNSEND. THE LAKE HAS A WATER SURFACE AREA OF ABOUT 35,200 ACRES, A MAXIMUM WIDTH OF 4½ MILES. THE DAM, AN ALL-CONCRETE STRUCTURE, IS APPROXIMATELY 1,000 FEET LONG AND 225 FEET HIGH.



FAITHFUL FLAVOR WITH

# Old Faithful

AND PENNY WISE  
MEAT & MEAT PRODUCTS

The Pierce Packing Company — modern and up to date;  
Federally Inspected.

Serving eleven Western States — the finest meat products  
available anywhere, all processed in Montana.

A vigorous growing Company contributing substantially  
to Montana's economic development.



## PIERCE PACKING CO.

BILLINGS, MONTANA

You Will Find **PIERCE** U.S. Inspected  
MEATS IN MONTANA'S FINEST EATING PLACES

We Welcome You to the "Big Sky Country"

Clark R. Pierce — D. C. Stone, Jr. — Fred C. Pierce II

Harold P. Curtis — Keith C. Markegard — Rodney P. Castle — P. R. Florey



WHAT MAKES  
AN AREA  
BETTER  
THAN  
AVERAGE?



OFFICE OF YELLOWSTONE ELECTRIC  
COOPERATIVE, INC.

## YELLOWSTONE VALLEY ELECTRIC COOPERATIVE, Inc.

We think it's Cooperation with each other and  
Pride in our neighbor's accomplishments

The various operations you see in this ad were  
not built by one individual. They took coopera-  
tion to build and pride to make them succeed.  
Yellowstone Valley Electric Cooperative is happy  
to be a part of this community and is always hap-  
py to cooperate with anyone to make our area  
better.

Yellowstone Valley Electric Co-op will welcome  
you and help you look over their service area  
for your next location.

POWER FOR IRRIGATION AND FARMS



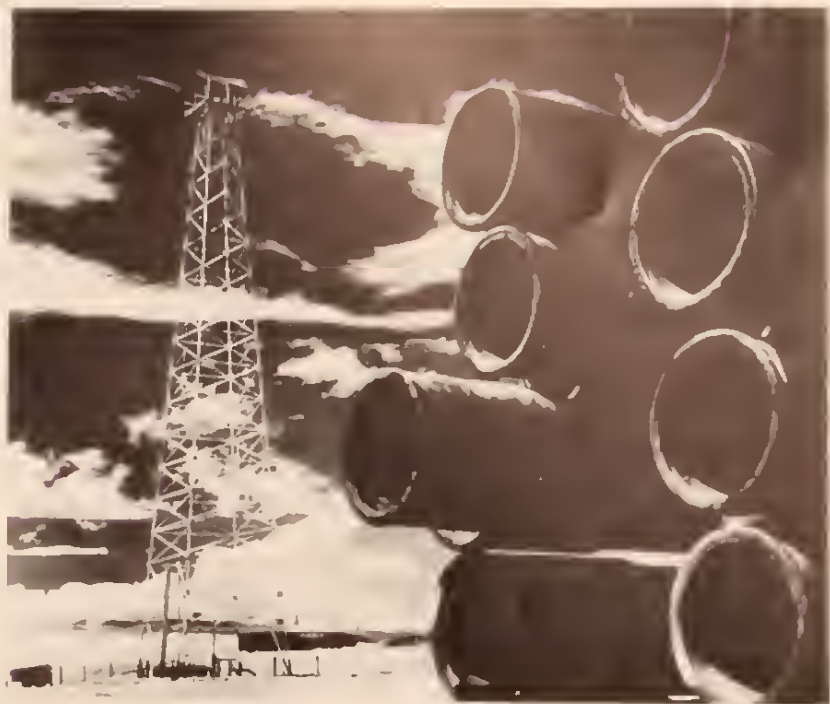
RIGHT TOP:  
POWER FOR  
FEED LOTS

RIGHT  
CENTER:  
POWER FOR  
SCHOOLS

YELLOW-  
STONE  
ELECTRIC  
COOPERA-  
TIVE, INC  
SUB-STATION



IF YOU WANT TO SERVE THE NEW INDUSTRIAL FRONTIER WHY NOT CHECK ON BILLINGS, MONTANA



South-  
eastern  
Montana  
Where  
Industry,  
Farming,  
Ranching  
Are on the  
Move to  
Meet the  
Require-  
ments of  
this  
Advancing  
Area . . .



**INFORMATION GLADLY ON . . .**

- ★ Research Facilities Through Our Montana University System and Private Firms
- ★ Our Abundance of Water and Raw Materials
- ★ Plenty of Skilled and Semi-skilled Manpower
- ★ A Favorable, Enthusiastic Business and Industrial Climate
- ★ Huge Reserves of Electricity, Gas, Oil and Coal
- ★ An Expanding Billion Dollar Market -- Just Beginning to Show its Vast Potential for the Immediate Years Ahead
- ★ Let Us Forward Your Inquiries on Specific Questions to the Proper People for Prompt, Accurate Service

MEMBER BANKS OF THE BILLINGS CLEARING HOUSE

**BILLINGS STATE BANK -- FIRST NATIONAL BANK, BILLINGS -- MIDLAND NATIONAL BANK, BILLINGS  
SECURITY TRUST & SAVINGS BANK, BILLINGS**



## WHOLESALE AND RETAIL CENTER FOR ONE-QUARTER MILLION MIDLAND EMPIRE RESIDENTS

### the Center of Your Vacation Fun...

Wherever in the "Big Sky" country you plan to visit, whatever you plan to do... make Billings your first big stop. After a restful, overnight stay in one of 1,700 motel or hotel rooms and a hearty meal—73 fine restaurants, take your pick—you'll be more than ready to thoroughly enjoy the many recreational, scenic and historic spots located a few minutes or few hours away. East, west, south or wherever you go, there are new things to do, new sights to see and new experiences waiting for you. Take your choice and take your time... you have lots of both when you plan your trip through Montana's magic city of Billings!

- 1 **BILLINGS**—Fun capital of the vacation state and front door to a memorable, exciting Western visit. See Yellowstone Historical Museum, Black Otter Trail and Yellowstone Kelly's grave.
- 2 **POMPEYS PILLAR** — A towering, 200-foot rock formation. Historic point of the 1806 Lewis & Clark expedition. Where Captain Clark carved his name.
- 3 **HARDIN, CUSTER BATTLEFIELD AND CEMETERY** — Site of the West's most famous Indian massacre, Battle of the Little Big Horn. Scenic battlefield drive, historic museum.
- 4 **CODY, WYOMING** — Buffalo Bill Monument and Museum. \$250,000 Whitney Art Center. Spectacular canyon drive to Shoshoni Dam and Yellowstone Park's east entrance.
- 5 **YELLOWSTONE PARK, LOWER FALLS** —One of the world's most beautiful sights, the falls cascade into the colorful deep Grand Canyon of the Yellowstone. One of the park's favorite attractions.
- 6 **OLD FAITHFUL GEYSER**—Most famous of Yellowstone's unique and beautiful hot water phenomena. Erupts regularly every hour with a majestic column of water and steam to nearly 200 feet.
- 7 **WEST YELLOWSTONE** — Summer and winter resort center at West entrance to Yellowstone's two million spectacular acres. Outstanding tourist facilities.
- 8 **COOKE CITY**—Nestling 7,535 feet high in the beautiful Beartooth Mountains, this former gold mining town is now a top tourist and hunter's attraction and Northeast entrance to Yellowstone Park.
- 9 **RED LODGE** — Popular ski resort and home of the famous summer Festival of Nations and July 4th Rodeo. Start of the breath-taking but safe Beartooth Highway over scenic mountains, past sparkling lakes and glacial snow to Yellowstone Park.
- 10 **VIRGINIA CITY** — Famed "gold strike" city. Now authentically restored to original condition. See century-old stores, museum, hotel, newspaper. Daily odd-time drama productions.
- 11 **QUAKE LAKE** — Site of the massive mountain slide and lake created by the great 1959 earthquake. Paved roads to memorial area. See fantastic quake-caused destruction and formations.
- 12 **LIVINGSTON** — Home of world famous trout fishing. Follow the Yellowstone River through Yankee Jim Canyon to Yellowstone Park's North entrance.
- 13 **YELLOWTAIL DAM AND BIG HORN CANYON** — Multi-million dollar federal dam project now under construction. Paved road to 520-foot dam and lookout point high above spectacular Big Horn Canyon, the grand canyon of Montana.

These are the sights, cow towns, the mountains and rivers. Every one an unforgettable stop during your Montana vacation. There are things doing, too, in and near Billings. Rodeos, old-time celebrations, summer theater, horse shows, Indian festivals and many others. For a complete schedule of events and activities, write Billings Chamber of Commerce, Billings, Montana. You're invited—the latchstring is out. Won't you come and enjoy yourself with us?

### the Magic City

WELCOMES YOU!

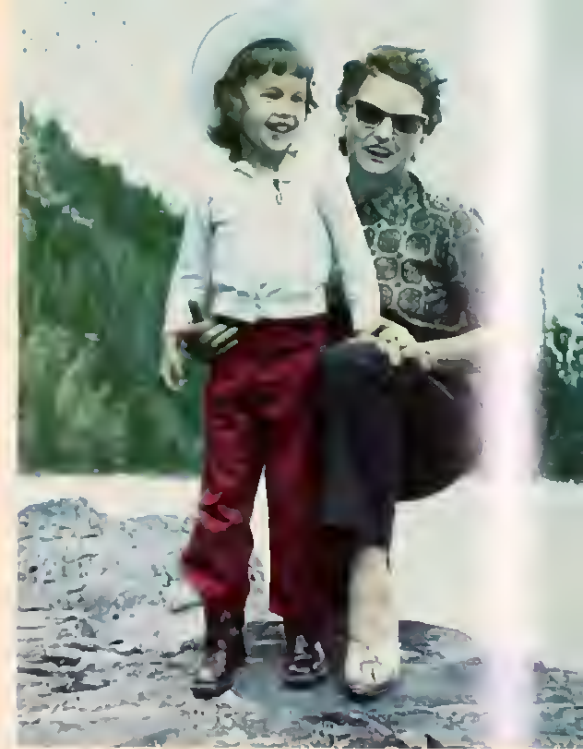


**THIS BILLINGS, MONTANA CIVIC PAGE MADE POSSIBLE BY MEMBER BANKS  
OF THE BILLINGS CLEARING HOUSE**



# THE BIG SKY

**COUNTRY  
BECKONS  
YOU!**



**Look to the Future  
For Yourself -- Your  
Business and Your  
Children . . .**

LEFT: ONE OF THE  
SCORES OF  
BEAUTIFUL FALLS  
IN OUR NATIONAL  
PARKS

ABOVE: LITTLE GIRL  
WITH GRAND-  
MOTHER AT YAAK  
RIVER RAPIDS

RIGHT: SKIING ON  
BIG MOUNTAIN,  
ONE OF MANY  
FINE WINTER  
RESORTS





# H. F. JOHNSON, INC.

## Petroleum Transportation

Office 1524 Lockwood Road—Dial 245-4153 or 245-4154

KATHERINE P. MITCHELL, President—ROBERT L. MITCHELL, Vice President  
J. J. CUMISKEY, General Manager



Mr. Harry Johnson started H. F. Johnson, Inc., as an individual hauling gravel with 2 trucks in 1937. Most of the hauling done was for road lab and as asphalt was used in building and repaving roads he started hauling asphalt in tank trucks.

From such a start he got into the hauling of crude oil and refined petroleum products. He incorporated the Company in 1945 and was operating in Montana, Idaho, Wyoming and North Dakota.

Today the Corporation operates 28 trucks and trailers hauling road oils and refined petroleum products in the four states. Mr. Johnson passed away in August of 1981 and left controlling interest to his daughter, Mrs. Katherine Mitchell who is still president of the Corporation.

H. F. Johnson, Inc., now operates from terminals located in Billings, Bozeman, Missoula and Great Falls, Montana, and from Cody and Sheridan, Wyoming.

## Cessna Sales & Service



FLYING SERVICE, INC.

LOGAN FIELD  
BILLINGS, MONTANA 59100

Telephone  
252-0508  
Area Code 406

FIRST IN FAST, SAFE, DEPENDABLE  
AIR TAXI TO ALL RECREATION  
AREAS IN THE BIG SKY COUNTRY



FAA APPROVED  
FLIGHT SCHOOL  
CE-01-2

FAA APPROVED  
REPAIR STATION  
NO. 4198

FAA APPROVED  
AIR CARRIER  
NO. 1 CE-7

CANADIAN  
PERMIT  
ATB-27

FAA APPROVED FLIGHT SCHOOL  
COURSES FOR ALL PILOT RATINGS  
FROM PRIVATE PILOT THROUGH AIRLINE  
TRANSPORT PILOT



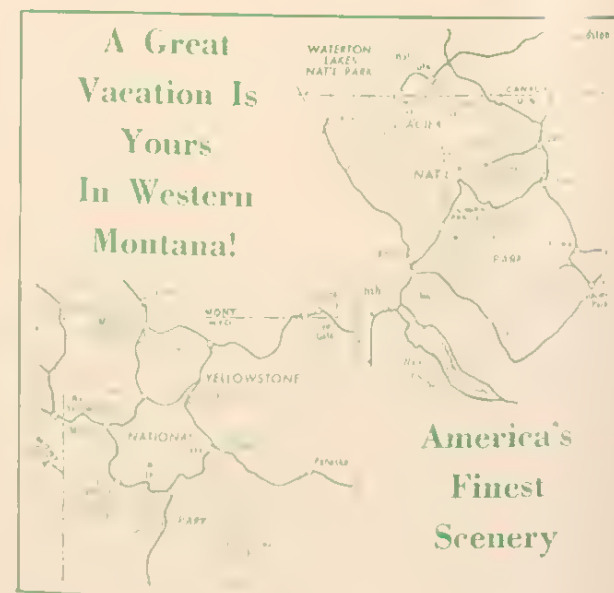


**COME, ENJOY YOURSELF AT  
YELLOWSTONE NATIONAL PARK  
ONE OF NORTH AMERICA'S  
REALLY GREAT TOURIST ATTRACTIONS**

A TOUR ST IN YELLOWSTONE NATIONAL PARK SHAPS A FAMILY PORTRAIT OF A MOTHER BEAR AND HER THREE CUBS NEAR MAMMOTH HOT SPRINGS. BEARS AND THEIR CUBS PROVIDE UNFORGETTABLE THRILLS FOR YELLOWSTONE VISITORS AS THEY STOP TRAFFIC ALONG THE 300 MILES OF PAVED HIGHWAYS IN THE PARK. WILDLIFE IN THE PARK INCLUDES BUFFALO, ELK, MOOSE AND MANY OTHERS.

LOWER FALLS OF THE GRAND CANYON OF THE YELLOWSTONE IS PERHAPS THE MOST BREATHTAKING VISTA IN YELLOWSTONE NATIONAL PARK. THIS IS THE MOST POPULAR VIEW OF THE FALLS AND CANYON. FROM ARTIST'S POINT ALTHOUGH THE POINT IS MORE THAN A MILE FROM THE FALLS, THE ROAR OF THE WATER MAY BE HEARD DISTINCTLY FROM THIS VIEWING AREA.

Also See Page 177  
THE PARK'S GOLDEN  
ANNIVERSARY 1966  
1916 1966





# PAUSE IN THE MADISON VALLEY -- WORLD FAMOUS FISHING AREA



FOR HUNTER OR PHOTOGRAPHER—SIGHTS LIKE THIS ARE COMMON

SOME OF THE BIG SKY COUNTRY'S FINEST HUNTING AND FISHING WITH IN MINUTES OF ENNIS

EXPERIENCED GUIDE AND PACK SERVICE IF YOU WISH

For Complete, Confidential Information on Ranch, Commercial, Resort or Home Properties Call on Jess C. Armitage



THIS IS YOUR GATEWAY TOWN FOR TRAVELING AND TOURING FAMOUS YELLOW STONE NATIONAL PARK



FOR COMPLETE AUTOMOTIVE SERVICE AND FORD SALES AND PARTS STOP AT TODD FORD ENNIS, MONTANA

FISH THE INTERNATIONALLY FAMOUS MADISON RIVER



A FEW MINUTES OF SCENIC DRIVING WILL GIVE YOU & THE YOUNGSTERS A THRILL IN VIRGINIA CITY AND NEVADA CITY THAT YOU WILL ALWAYS REMEMBER

## Welcome to Ennis and Madison Valley

A REAL WESTERN COMMUNITY ON THE FAMOUS MADISON RIVER IN SCENIC SOUTHWESTERN MONTANA



HEADQUARTERS FOR TOP HUNTING AND WORLD FAMOUS FISHING AREAS



Brochure Courtesy of Ennis Chamber of Commerce and Advertisers Represented



TRAVEL THE PARK TO PARK SCENIC ROUTE VIA ENNIS



**FIRST  
MADISON VALLEY BANK**  
NEW BANKING FACILITY  
COMPLETE BANKING SERVICE



- Courteous
- Confidential
- Prompt

DIAL  
ENNIS **682-4215**

ENNIS, MONTANA



**THE MADISON VALLEY, HISTORIC VACATION PARADISE**

FINE MOTELS

GOOD CAFES

CONGENIAL  
LOUNGES

FRIENDLY STORES

FACTORY TRAINED  
AUTOMOTIVE  
SERVICE MEN

BOWLING

FISHING

HUNTING

PLUS FINE PRO-  
FES-  
SIONAL SERVICES  
AND A NEW,  
MODERN HOSPITAL

Fishingland,  
U.S.A., Map Run  
by Courtesy of  
the new Madison  
Valley Bank

**FISHINGLAND - - U. S. A.**







PLAN TO SEE A WESTERN CATTLE DRIVE  
OR TAKE IN ONE OF OUR NUMEROUS WESTERN RODEOS

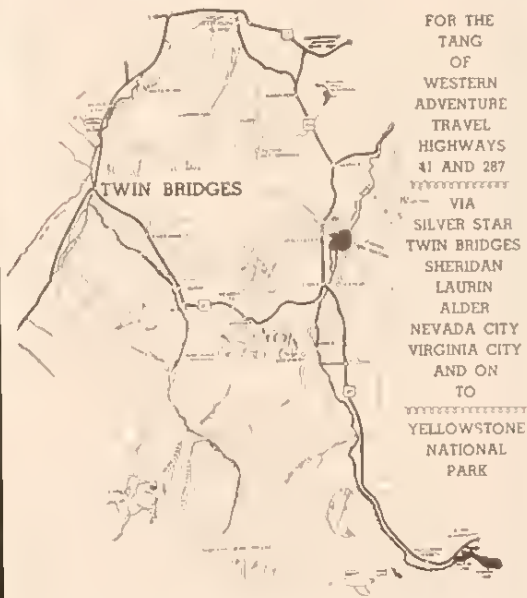


HEREFORD PHOTOGRAPHS ABOVE AND BELOW COURTESY OF  
BAYERS HEREFORD RANCH

The Ruby Valley is one of the top producing areas of  
fine Herefords, horses, sheep, grains, potatoes, honey and  
diversified crops in Montana . . .

FOR DETAILED INFORMATION WRITE TO:  
CAMILLA GAGE REAL ESTATE  
TWIN BRIDGES, MONTANA

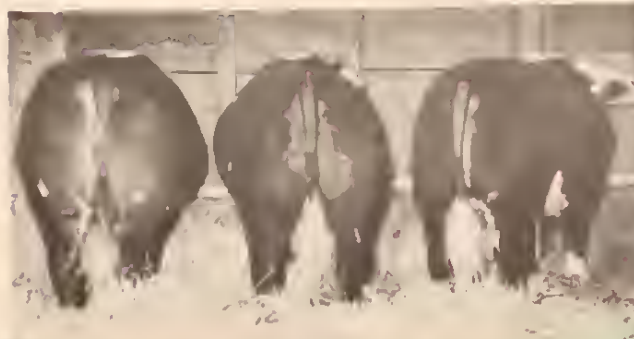
# THE RUBY VALLEY . . . WHERE THE WEST BEGAN



FOR THE  
TANG  
OF  
WESTERN  
ADVENTURE  
TRAVEL  
HIGHWAYS  
41 AND 287  
VIA  
SILVER STAR  
TWIN BRIDGES  
SHERIDAN  
LAURIN  
ALDER  
NEVADA CITY  
VIRGINIA CITY  
AND ON  
TO  
YELLOWSTONE  
NATIONAL  
PARK

AREA MAP OF SOME OF MONTANA'S FINEST HUNTING AND  
FISHING AREAS. MAP RUN BY COURTESY OF TWIN  
BRIDGES MARKET

PHOTOGRAPH BELOW: SHEEP GRAZING ON ROAD TO ALDER  
RESERVOIR. THIS ROAD TAKES YOU THROUGH HISTORIC  
LAND TO DILLON



## TWIN BRIDGES AND MONTANA'S HISTORIC RUBY VALLEY

Travel the route where  
Western History was made  
VIA HIGHWAYS 41 AND 287

- ★ Silver Star
- ★ Twin Bridges
- ★ Sheridan
- ★ Laurin
- ★ Alder
- ★ Nevada City
- ★ Virginia City

And on to  
Yellowstone National Park



Travel the Land of the Vigilante and the Badman



MAKE TWIN BRIDGES YOUR HEADQUARTERS  
WHILE HUNTING, FISHING OR TOURING HISTORICAL PLACES



#### TWIN BRIDGES, MONTANA, COMMUNITY HALL

Twin Bridges, Montana's new Community Building, pictured above, was completed in 1965, and is already an historic building in its own right, having been erected on the site of the old Twin Bridges Public Library (organized in 1897 and housed in one of the oldest buildings in town, which was originally a feed store) since 1926.

The large stone and plaque to the left of the fire department entrances commemorates the Lewis and Clark campsite of 1805, which was two blocks to the west of this building, and on the bank of the Beaverhead River. The monument was erected by the Federated Women's Clubs of Madison County.

The library now has spacious new quarters in the new building, which was constructed by local volunteer help, with many donated materials.

In addition to the library, fire department and kitchen facilities, a large public meeting hall on the upper story provides meeting places for loan to adult and youth organizations, including the American Legion, sponsors of Boy Scouts and Girl Scouts and the Roy, Neighbors of America, sponsors of the juveniles, who contributed their building funds to the community project when it became obvious a joint venture was more practical than individual efforts would be. The Town of Twin Bridges' local Volunteer Fire Department and Library association, the fire district, State Library Service, and numerous other organizations and individuals also shared the cost and work.

Use of the building is not limited to contributing organizations, however, because all these organizations are community service organizations, and in providing facilities for themselves they also performed a very valuable service to the entire community.



SECOND TO NONE — FOR FISHING, FUN AND EXCELLENT HUNTING



#### GOOD FOOD

FINE ACCOMMODATIONS

FRIENDLY STORES

WESTERN HOSPITALITY

FINE ROADS RADIATING IN ALL DIRECTIONS FOR INTERESTING SIDE TRIPS

PAGE SPONSORED BY CAMILLA GAGE, TWIN BRIDGES MARKET KING MOTEL, BIG SKY MOTEL, BLUE ANCHOR CAFE AND LOUNGE



COME! FOR A DAY — A WEEK — A MONTH, OR A SEASON. YOU'LL ENJOY EVERY HOUR OF YOUR TWIN BRIDGES STAY!

You'll Find This the Perfect Place to Stay. A Friendly Western Community "Smack Dab" in the Center of Scores of Interesting Places to Visit.





## KING MOTEL

HUNTING & FISHING  
HEADQUARTERS FOR  
MADISON COUNTY

12 MODERN UNITS — KITCHENETTES  
SINGLES — DOUBLES — TWO BEDROOM UNITS

DIAL  
684-5639

South Edge of  
Business District  
Twin Bridges,  
Montana



## BIG SKY MOTEL

New and  
Completely Modern  
On Best Route to  
Yellowstone National  
Park & Virginia City

BIG SKY  
MOTEL

JUST SOUTH OF  
TWIN BRIDGES,  
MONTANA  
AIRPORT — MILE  
FINE FISHING  
AND HUNTING  
INFORMATION

DIAL  
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CAMPS  
AVAILABLE  
MAX & CHRIS  
ENGLE



Fine Foods, Good Drinks, Tourist Information  
Established 1936

Jemima Cook, Managing Owner

Highways 4 and 257  
Center of Town

TWIN BRIDGES MONTANA



## BLUE ANCHOR Cafe & Bar

- Complete Cafe Service
  - Your Favorite Drinks
  - Finest Steaks Anywhere
- As YOU Like Them!  
Montana Best

EVERYONE STOPS AT  
THE FAMOUS  
BLUE ANCHOR  
To Eat and Drink the  
Finest and to Meet  
Old Friends



THE SIGN OF QUALITY  
For Discriminating Diners  
in Montana's  
Beautiful Ruby Valley

↓ ↓ ↓ ↓  
Banquet and Meeting Rooms



**TWIN BRIDGES, THE RUBY VALLEY'S TRADING CENTER, WITH A CENTURY OF WESTERN HISTORY, BECKONS YOU**



ABOVE: AIR VIEW OF HOSPITABLE TWIN BRIDGES FOR THAT TRULY GREAT VACATION!

An Angler's Paradise . . . with more rivers than you can fish . . . and more fish than you can take.

BIG GAME HUNTING — PRIMITIVE AREAS — HOT SPRINGS — HISTORIC SITES — SCENERY — GOOD MOTELS AND TRAILER PARKS — FINE CAFE — CONGENIAL LOUNGES . . .

BELOW: MONTANA CHILDREN'S HOME AT TWIN BRIDGES



Visiting Cattle, Horse, Potato, Grain and Diversified Farming People Will Enjoy Looking Over Our Fine Ranches



FAR LEFT: AIR VIEW OF GUY GEORGE'S POTATO, CATTLE AND GRAIN MAIN RANCH

LEFT: PASTURE SCENE ON BROKSLE BROTHERS DIVERSIFIED FARM

**FISH THE BIG HOLE RIVER FOR BROWN, RAINBOW, SOME GRAYLING; THE BEAVERHEAD RIVER FOR BIG BROWNS, WHITEFISH; THE RUBY RIVER FOR BROWN, RAINBOW, WHITEFISH; THE JEFFERSON RIVER FOR BROWN, RAINBOW AND SOME WHITEFISH.**

**A FISHING VACATION YOU'LL REPEAT AGAIN AND AGAIN**

Come Stay Awhile in a Genuine Western Town — You'll Enjoy Heartfelt Friendliness



**Touring Cattle, Horse & Sheep Raisers will Enjoy Visiting our Huge Ranches**





FISHING AND SIGHTSEEING BOATS OPERATE ON TROUT-LADEN YELLOWSTONE LAKE IN YELLOWSTONE NATIONAL PARK AT BRIDGE BAY MARINA, SHOWN ABOVE, AND AT FISHING BRIDGE AND WEST THUMB. SCENIC CRUISERS LEAVE BRIDGE BAY MARINA AND WEST THUMB SEVEN TIMES DAILY FOR SIGHTSEEING EXCURSIONS ON THE SPARKLING LAKE, NESTLED AMONG FOREST-CROWNED HILLS

IF YOU THINK THIS LITTLE BEAR CUB HAS LOST HIS MOTHER AND IS UP A TREE LOOKING OVER THE COUNTRYSIDE FOR HER, YOU ARE WRONG. HE'S JUST ONE OF THOUSANDS OF BEARS WHO GET THEIR PICTURES TAKEN BY THE TWO MILLION VISITORS TO YELLOWSTONE NATIONAL PARK EACH SEASON. THE PARK ALSO IS A SANCTUARY FOR MANY OTHER SPECIES OF WILDLIFE AND VISITORS ARE ENCOURAGED TO REMEMBER THAT ALTHOUGH THE ANIMALS ARE FRIENDLY, THEY ARE NOT TAME.

THIS IS A SWEEPING VIEW OF OLD FAITHFUL GEYSER AND INN, VISITED BY MILLIONS OF TOURISTS WHO COME ANNUALLY TO YELLOWSTONE NATIONAL PARK. OLD FAITHFUL HAS ERUPTED MORE THAN HALF A MILLION TIMES SINCE IT WAS NAMED IN 1870. IT ERUPTS ON THE AVERAGE EVERY 66 MINUTES, TO A HEIGHT OF 150 FEET, ALTHOUGH STEAM FROM THE 12,000 GALLONS OF WATER SPEWED OUT RISES 1,000 FEET IN THE AIR. THE INN WAS BUILT IN 1904 AND HAS BEEN REMODELED AND ADDED TO SEVERAL TIMES SINCE

FOR MORE YELLOWSTONE PARK PICTURES TURN TO PAGE 170



# THE FIRST NATIONAL BANK OF PLAINS, MONTANA

Member F. D. I. C.

SERVING SANDERS COUNTY

WITH PERSONALIZED BANKING EXPERIENCE



E. L. Johnson, Dean of Montana Bankers with Over 60 Years of Banking Behind Him, is Still an Ardent Sportsman and Active Booster of Montana — "The Big Sky Country." Here, in Spite of Enjoying His Eighty Plus Years of Age, He is Shown at His Favorite Pastime. He Still Maintains an Active Interest in His Beloved First National Bank of Plains, Montana, Where His Two Sons Carry on the Work He Started Many Years Ago.

PAGE SPONSORED BY: C. G. JOHNSON, Executive Vice President and R. B. JOHNSON, Cashier, AS A TRIBUTE TO THE GRAND OLD GENTLEMAN WHO GUIDED THEM SO WELL.



## THE HOTTEST FISHING IN MONTANA

You're welcome in Sanders County—a land of unsurpassed recreation, scenic beauty and financial opportunity. Here are the famous Camas Hot Springs with their life-giving mineral waters; giant hydro-electric plants which dot the Clark Fork River, and lumbering, agriculture and other industry which combine to form a healthy, year-around economic climate. Big game animals abound in the mountains, and streams are stocked with fish to provide endless hours of fine sport. There is plenty of room—for you!

MAP RUN BY COURTESY OF  
FIRST NATIONAL BANK  
OF PLAINS AND  
MUNSON REALTY



**MUNSON REALTY**  
HOMES — FARMS — RANCHES  
COMMERCIAL AND RESORT PROPERTIES  
WILLIAM A. (Bill) MUNSON — PLAINS, MONTANA  
DIAL 826-3733  
Write or Phone Munson Realty for Any  
Property Information



AIR VIEW OF BATTLE AREA AS IT LOOKS TODAY

BELOW: VIEW ON CUSTER HILL. MARKERS SHOW WHERE MANY OF CUSTER'S MEN FELL



When you vacation in the West, include a trip to CUSTER BATTLEFIELD in your plans. This famous site is located in the Dude Ranch country--surrounded by Yellowstone Park and Black Hills country. For full information, write the Chamber of Commerce at Hardin, Montana, Sheridan, Wyoming or Billings, Montana.



MAJ. GEN. GEORGE A. CUSTER  
Courtesy Signal Corps, U.S. Army



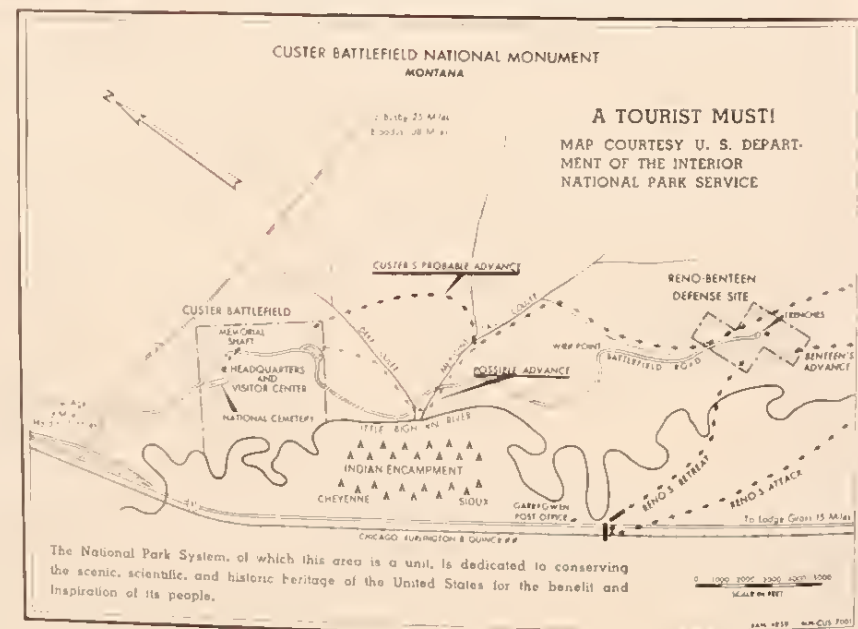
## CUSTER BATTLEFIELD NATIONAL MONUMENT

MONTANA

CHECK WITH THE HARDIN, MONTANA  
CHAMBER OF COMMERCE FOR  
ANNUAL RE-ENACTMENT DATES



This is the scene of one of the last important Indian resistances to the westward march of the white man's civilization, in which Lt. Col. George A. Custer and his immediate command met defeat and death.





**INDUSTRIAL  
OPPORTUNITY  
WESTERN LIVING  
MODERN FACILITIES  
CULTURAL PROGRAMS  
ADD UP TO PLEASANT  
LIVING IN THE  
BIG SKY COUNTRY**

BELOW: YOUR YOUNGSTER WILL LIKE THIS FOUR SEASON  
OUTDOOR COUNTRY



ABOVE: SPRAWLING LUMBER AND PLYWOOD COMPLEX AT LIBBY EMPLOYS AROUND 1400 PEOPLE. THE EMPLOYEES ARE WITHIN MINUTES OF FINE FISHING AND HUNTING SPOTS

**Tired of Congestion, Traffic, Pollution  
Come to Montana**

**147,138 SQUARE MILES  
OF**

**OPPORTUNITY**

**ELBOW ROOM**

**CONTENTMENT**

**Combined With the Best Possible Outlook  
For You and Your Children in the Years  
to Come**

FAMOUS BLACKFEET MATRON AND AN EQUALLY FAMOUS DESCENDANT — DELORES RACINE, 19, CHOSEN MISS INDIAN AMERICA IN 1959 AT THE ALL AMERICAN INDIAN DAYS, SHERIDAN, WYOMING, STANDS BESIDE THE FAMOUS PORTRAIT OF HER GREAT GRANDMOTHER. JULIA WADES IN THE WATER, PROMINENT BLACKFEET MATRON OF A PAST GENERATION. THE PORTRAIT OF DELORES' GRANDMOTHER IS PART OF AN EXHIBITION BY THE LATE WESTERN ARTIST, WINOLD REISS, ARRANGED BY THE MUSEUM OF THE PLAINS INDIAN, BROWNING, MONTANA, FOR THE NATIONAL GOVERNORS' CONFERENCE AT NEARBY GLACIER NATIONAL PARK. THE EXHIBITION WAS ON LOAN TO THE MUSEUM FROM THE GREAT NORTHERN RAILWAY AND THE LOUIS W. HILL, SR. FAMILY.

—MUSEUM OF THE PLAINS INDIAN, BROWNING, MONTANA





## 1862 **BANNACK STATE** 1966 **MONUMENT**

### NATIONAL HISTORICAL LANDMARK SOUTHERN GATEWAY TO MONTANA

Fine accommodations at either Dillon or Jackson, Montana while exploring this historic ghost town. For the finest in dining and accommodations, we recommend the Diamond Bar Inn at Jackson. Bring your camera and record the sights of this historical territorial capital. Just off Highway 278 between Dillon and Jackson, Montana.

AIR VIEW OF BANNACK AS IT APPEARS TODAY



Bannack, located 20 miles southwest of Dillon, possesses more historical color than any other Montana city.

The site of Montana's first gold rush, first school, first territorial capitol—and as headquarters of the infamous Sheriff Henry Plummer and his road agents—Bannack well deserves its recent certification as a national historic landmark.

The first white men to view this area were Lewis and Clark during their expedition in 1805. Grasshopper Creek was named Willard Creek for Alexander Willard, a member of the expedition.

Bannack's history was, however, not to really begin until almost 55 years later when John White and party discovered gold July 28, 1862, on a sand bar a few miles upstream from the point at which Grasshopper Creek empties into the Beaverhead River. Unaware of the creek's previous name, they christened it "Grasshopper Creek" because of the dense 'hopper population in the area. As news of their fabulous strike fished across the nation, the site automatically became the "Grasshopper Diggins" and was the topic of world-wide conversation and speculation.

The first camp was located on what became known as Yankee Flat, some 10 miles upstream from White's original discovery, and consisted of tents and brush wickiups along the creek. They found the gravel to be literally saturated with gold and by fall some 400 residents had settled in the area of the "Diggins." Ideal weather marked that first autumn in the gold camp and this proved a blessing to the miners who had been too preoccupied to make preparations for winter. By October, though, a building boom was in progress and the miners made wise use of the plentiful and easily accessible timber supply.

Shortly before Christmas, Bill Goodrich finished work on his huge log building, "The Goodrich House," which was the state's first hotel.

Also arriving on the scene that first fall was Henry Plummer, who had heard of the gold rush and had journeyed to the new town. Little did the mining residents suspect that this man would

occupy a murderous niche in their state's history!

As in the case of most early gold strike communities, the majority of the populace were honest, hard-working miners—but along with them came the scum, the outcasts, riff-raff, hangers-on and the wild ones. And among the latter were such as Cy Skinner, former road agent and killer from the Salmon, Idaho mines; Ned Ray, who had escaped from San Quentin Prison where he was serving a life sentence for murder; Buck Stinson, robber and murderer; Charley Forbes, who despite his background of gentle breeding, was a villain of the lowest degree—the fastest gunman and most deadly shot among the area's desperadoes.

The arrival of Plummer changed all this for he was the greatest—or rather the vilest—of them all. No longer was Forbes the top gun; Plummer now was the master. At twenty paces, he could draw and, by fanning the trigger, fire six shots in four seconds into a silver dollar. That was Henry Plummer. It was he who quickly took command of the camp's badmen and organized them into road agents—while at the same time gaining his fellow citizens' trust and winning the election for sheriff on April 1, 1863. He played this Jekyll and Hyde role to perfection, before the Vigilantes rewarded him with a dance on the gallows.

Bannack was originally named for the Bannock Indians, members of the Shoshoni tribe, and sometimes known as the Snakes. A peace-loving people, they roamed from the Snake River and Lemhi Valley in Idaho to the Wind River in Wyoming. They were attracted to the Bannack area by the good hunting, tasty berries, roots and plants such as comas root, bitter root, sego lily, and the Kouse or buscuit root. All were bulb plants and the Indians cooked these bulbs on heated rocks in earth covered pits, then pounded them into flour which was placed into bark bags or baked into cokes and stored for winter use.

Bannock is a Scotch word and means coke cooked over an open fire. It is believed that the town's name received its change in spelling when the post office was established on November 21,

1863, and when the name was submitted to Washington, D. C., the "a" was inadvertently taken to be on "n." Prior to Montana's establishment as a Territory on May 26, 1864, Bannack had previously been in three earlier territories—Nebraska, Dakota and Idaho. It was designated the territorial capitol of Montana and Sidney V. Edgerton was appointed by President Abraham Lincoln as the first territorial governor. Gov. Edgerton's daughter Lucia, was born three days before Montana Territory was established and thus holds the distinction of having lived in two territories without ever leaving her crib. She is now Mrs. Lucio Idaho Buckingham and lives at Madison, Ohio. She is the oldest living member of the Society of Montana Pioneers and celebrated her 98th birthday on May 23, 1962.

The other lone surviving native of Bannack's historic territorial capitol is Anthony French, born November 9, 1867, and he now lives in Dillon. Mr. French's father, G. D. French, constructed Henry Plummer's coffin and helped bury the notorious sheriff.

At its peak, Bannack had some 3,000 residents in and around the gulch and for almost a year served as the territorial capitol until this coveted distinction was lost to the larger and richer camp at Virginia City. It has been estimated that over \$16 million in gold was taken from the "Grasshopper Diggins" during the 20-year period from 1862 to 1882 and mines ore still in operation in this area today. Although its population has shrunk to a mere 20, a picnic area lies along the Grasshopper and Bannock is rapidly becoming one of the state's most sought-out tourist attractions.

#### MONTANA'S THREE CENTENNIALS

Bannack — 1962

Virginia City — 1963

Montana Territorial — 1964

"A people that take no pride in the noble achievements of remote ancestors will never achieve anything worthy to be remembered with pride by remote descendants."

—Macaulay

FIRST . . .  
GOLD RUSH IN MONTANA TERRITORY—1862

MINING CLAIM IN TERRITORY  
(CONCEDED TO BE WHITE'S BAR)  
JULY 28, 1862

QUARTZ DISCOVERY—1862

SCHOOL IN TERRITORY—1863

QUARTZ MILL—1863

HEADQUARTERS OF PLUMMER'S  
ROAD AGENTS—1862-1864

CAPITAL OF MONTANA TERRITORY—1864. WITH FIRST LEGISLATURE CONVENING DECEMBER 20, 1864

GOVERNOR'S MANSION—1864

SAW MILL IN MONTANA (AT MILLPOINT, NEAR BANNACK, OPERATED BY A. F. GRAETER)



An aerial photograph showing a winding road that curves through a vast, mountainous landscape. The road is a light-colored ribbon against the darker, forested slopes. In the upper right, a large, light-colored glacier is visible, partially obscured by mist or clouds. The overall scene is majestic and scenic.

## *Glorious Glacier*

Awe-inspiring view from the  
famed Going-to-the-Sun Road,  
one of the most spectacular  
drives in North America.  
Photo by Hileman

*America's Finest Park*

Swiftcurrent Lake, one of countless  
crystal clear lakes, surrounded by Na-  
ture's mountain playground in Glacier  
National Park.

Photo by Hilleman







Picturesque Many Glacier Hotel  
at the foot of Mt. Wynn in Glacier  
National Park, is a memorable  
sight to Park visitors.

Photo by H. Leman



St. Mary Lake  
One of the largest and most beautiful of the Park  
is St. Mary. Bordered by the highway, it is easily acco-  
Photo



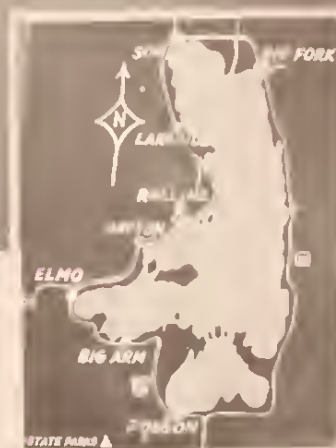
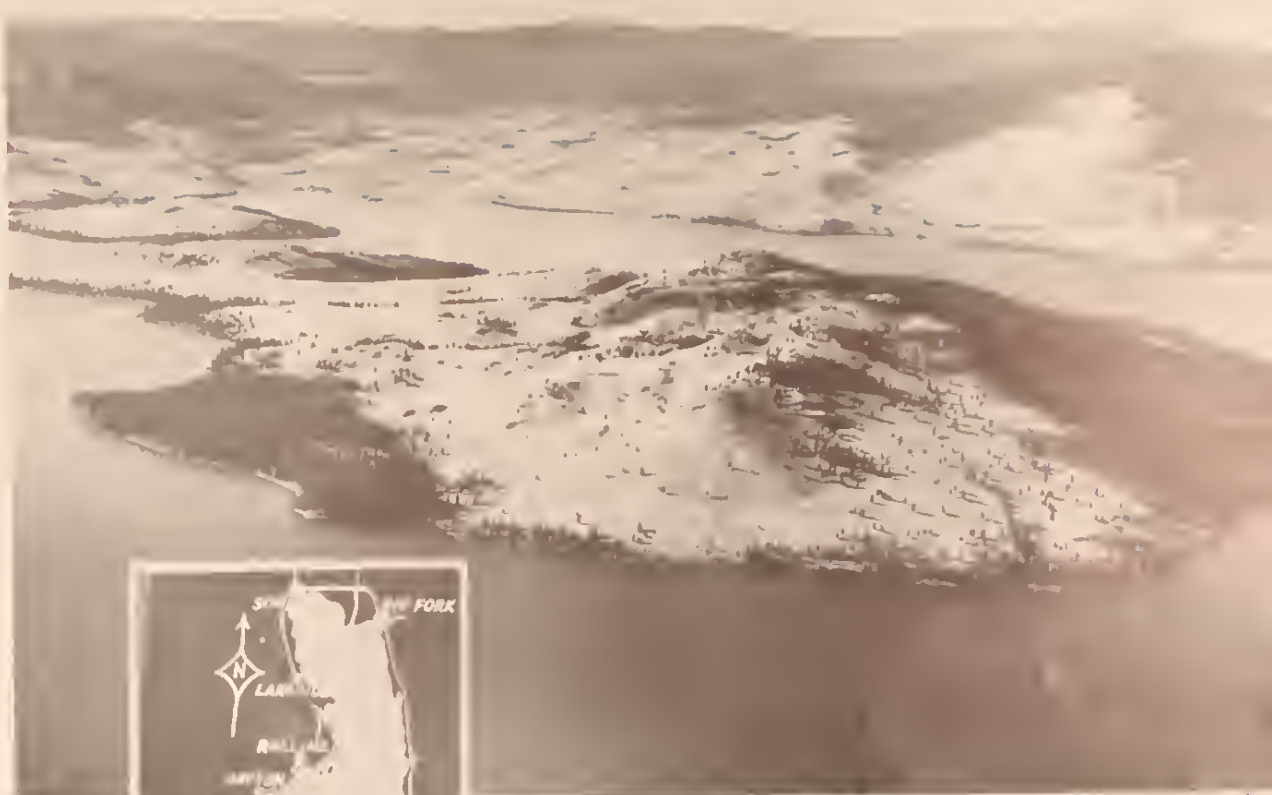


**Flathead Lake is One of the  
Really Great Vacationlands on  
the North American Continent**



PICTURED AT LEFT: ARDENT KALISPELL ANGLER  
H. C. (BUSH) BUSHNELL CATCHES A COUPLE  
OF "DANDIES"

**FISHING  
BOATING  
WATER SKIING  
SUMMER THEATRE  
GOLF COURSES  
REGATTAS  
FINE MOTELS  
GOOD  
RESTAURANTS**



Wild Horse Island, Largest of Many Fine Islands in Flathead Lake.

The Lake is the Largest Body of Fresh Water West of the Mississippi River with an Area of 120,320 Acres.

**LENGTH: 28 MILES ★ SHORELINE 185 MILES ★ WIDTH 15 MILES**  
**Over a Hundred and Twenty Thousand Acres of Delightful Living**



## ROBBER'S ROOST

"Robber's Roost" in Montana is the genuine thing. It is a rambling two-story structure in the Ruby Valley hard by the trail down which millions of dollars in gold was freighted out of Alder Gulch during the gold-strike days of the 1860's.

Today it remains in a fenced grove near a farmhouse, approached through a turnstile, with the hitching rail still standing where desperadoes tied their horses.

In 1863 "Robber's Roost" was a stage station known as Pete Day's place. Most of the ground floor was a bar-room, and the undivided upper floor a dance hall. Along with being a way-station for weary and thirsty travelers, its location made it an ideal meeting place for a band of some 50 men whose password was "innocent." Many of these individuals were men of position in the mining camps that fed their activities. The leader in fact was Henry Plummer elected sheriff at Bannack. As unsuspected members of society in the camps in which they lived, they were able to mingle freely and to obtain advance knowledge of gold movements out of the valley.



ABOVE—VIRGINIA BREWERY GARDENS, VIRGINIA CITY, MONTANA.

LEFT—REEDER'S ALLEY IS DUSTY AND CROOKED AND IS LINED WITH BUILDINGS COMMON A CENTURY AGO WHEN HELENA, MONTANA WAS A SITE FOR THE GOLD SEEKER. HERE DWELT THE ITINERANT MINER, THE LEATHER-LUNGED BULLWHACKER, THE CHINAMEN WHO MADE THEIR SEARCH FOR GOLD AND IT HAS BEEN A HAVEN FOR PENSIONERS. NOW BEING RESTORED BY LOCAL HELENA WOMEN, IT IS A FAST-GROWING ART COLONY.

BELOW—ONCE THRIVING MINING TOWNS, HIDDEN IN MONTANA'S MOUNTAINS, PRESENT A GHOSTLY APPEARANCE TO VISITORS WHO, OFF THE BEATEN PATH, DISCOVER FOR THEMSELVES THE ROMANCE AND CHARM OF THE OLD DAYS.

They met regularly at "Robber's Roost" and planned their operations, using the 80 miles of prairie, ravines and brushwood that lay between Bannack and Virginia City to waylay their victims. Sometimes it was the stagecoach held up to rob its passengers, sometimes a miner who had started for home on horseback to be found later along the trail murdered and plundered of his gold. Robbery and murder occurred every day, and a share of it took place right in the Roost itself.

Tales are told of the dark stains on the pine boards of the second story floor and the tell-tale trail that could be plainly seen leading from the center of the room to the head of the stairs. Other stains on the steps and on the first floor also testified to the men who suddenly disappeared from the "diggins" and the trail.

More than 190 murders were attributed to this organization before the honest citizens of the area organized themselves into the Vigilantes and hunted down and hanged 21 road agents within a few week's time. Unfortunately, the Vigilantes were so diligent and speedy they forgot to find out where Plummer and his gang had buried the enormous amount of gold they had collected. It has never been recovered, and no doubt still exists somewhere near "Robber's Roost."

Montana Highway Commission Photos





## VIRGINIA AND NEVADA CITIES

Cradled in the famous Alder Gulch of Montana's gold discovery days, Virginia City and its twin camp, Nevada City, radiate realism while providing complete comfort for their thousands of annual visitors.

Both famous early-day mining camps slipped into oblivion following their heydays of the 1860's. Nevada City became a complete ghost town, and Virginia City the next thing to it.

Today both have been restored, with infinite patience and complete dedication to authenticity. Structures that look like sod-roofed log cabins surprise visitors by providing comfortable motel accommodations with modern conveniences.

Located only a mile apart on the well-traveled highway that serves this romantic, historic and fun-filled sportsmen's paradise, the season for visitors in both towns is in full swing by June 10.

This is the locale in which to lose jaded visitor attitudes. Men, women and children find consuming interest in these towns in which Montana's territorial history was written. The glamor of the gold rush, the basics of its existence, the records of its Vigilantes, the nuances of its social life are all preserved and presented in interesting ways.

Activities vary from a stagecoach ride to "Boot Hill" to an evening of melodrama presented by the talented cast in the old time theatre next door to "The Bale of Hay" saloon.

You can visit business places that have never closed their doors since they were opened to serve the 10,000 gold rushers who poured into the gulch following that fateful day in May 1863, when Bill Fairweather and his party panned the first \$30 million in raw gold to come out of the area.

And, completely different aspects of the fun you can have in this territorial capital of Montana are the interesting side trips into the adjacent mountains, and the productive fishing trips you can take on its streams and lakes. A visit to this "Williamsburg of the West" is but one highlight of a Montana vacation.

OLD STUDIO IN VIRGINIA CITY, MONTANA, STANDS TO REMIND TOURISTS OF EARLY BOOMTOWN DAYS IN MONTANA'S MOST FABULOUS GOLD CAMP AND TERRITORIAL CAPITAL.



Montana Highway Commission Photos



THE VIRGINIA CITY OPERA HOUSE AND BALE OF HAY SALOON STILL PROVIDE ENTERTAINMENT FOR THE VISITORS WHO COME TO SEE THIS AUTHENTICALLY RESTORED MINING CAMP.

VIRGINIA CITY'S BUILDINGS ARE GOING ON ONE HUNDRED YEARS OLD. IT ONCE WAS THE CAPITAL OF MONTANA TERRITORY IN THE BOOMING GOLD RUSH DAYS. NOW RESTORED, IT SHOWS DRAMATICALLY WHAT LIFE WAS LIKE BACK WHEN THE WEST WAS YOUNG.





#### GHOST TOWNS

Montana's ghost towns, both romantically and historically, rate high on the Treasure State's list of attractions. There is a certain air of mystery and adventure in seeking out and exploring these once-thriving towns which poured billions of dollars into the nation's coffers.

Many of these camps are now just a few decayed scraps of wood, weed-topped placers and a few odd pieces of crude mining equipment. But, surprisingly enough, some appear almost-ready-to-five-in towns from which people just walked away.

Elkhorn, just south of Boulder, still has a lot to see. Elkhorn started in 1872 and sent out \$32 million in gold and silver. The townsite is more than a mile high, and its saloons still show bullet holes from 75-year-old arguments. Nearby Elkhorn Peak, with its glistening white marble cliffs, stretches 9,500 feet into the air.

The silver camp of Castle was once a lively, bustling spot when Calamity Jane and her buddies took residence there, but soon quieted down after the panic of 1893.

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RIGHT—THROUGH THE RUINS OF A DESERTED CABIN NEAR THE GHOST TOWN OF MARYSVILLE, MONTANA, A TOURIST VIEWS THE HIGH COUNTRY OF THE CONTINENTAL DIVIDE.

LEFT AND BELOW—GHOST TOWNS LIKE ELKHORN HOLD AN IRRESISTIBLE LURE FOR MONTANA VISITORS. HERE THEY CAN RELIVE THE EXCITEMENT OF THE EARLY MINING DAYS OF THE TREASURE STATE.

Montana Highway Commission Photos



Marysville, north of Helena, is not completely deserted, and there's more to see here than in most ghost towns. Some mining still goes on, but it's nothing like the riproaring period when Irishman Tommy Cruse's magnificent Drumlunnon Mine poured out \$50,000,000.

One of the best of all ghost towns in Montana is Granite near Phillipsburg on U. S. Highway 10-A. This was the richest silver mine on earth, and it might never have been discovered if a telegram from the east hadn't been delayed. The mine's backers thought their venture hopeless and ordered an end to operations, but the last blast on the fast shift uncovered a bonanza which yielded \$40,000,000.

Southern Cross is picturesquely situated on a hillside overlooking Georgetown Lake and the Pintlar Mountains. This might never have become a ghost town had it not been for the waters of Iron Mountain working against the miners. Today there are many buildings remaining, and some have been renovated and are used as summer homes, where it's only a short distance to the lake and good fishing with water sports of all kinds.

There are 90 odd ghost mining camps waiting to be explored in Montana where the visitor can go adventuring, reliving the thrill of the Gold Rush days.





## VIGILANTES

The history of Bannack, Montana's first territorial capital, makes it one of the most colorful of the gold towns in the west.

After gold was discovered in August, 1862, by a Canadian Indian named Francois (Benetsee) Finley, the news spread quickly and gold-seekers poured into the area, along with camp followers of every description.

In the typical manner of gold camps, Bannack had no law, and its destiny soon came under the rule of an outlaw gang led by Henry Plummer, its Jekyll-Hyde bandit sheriff. Corresponding in ciphier they marked men and coaches for plunder, used stage stops as hangouts and killed upwards to 100 men in the turbulent first few months of Bannack's existence.



THE GRASSHOPPER VALLEY NEAR BANNACK, MONTANA. GOLD WAS FIRST DISCOVERED IN THIS VALLEY GIVING RISE TO THE HIP-ROARING TOWNS OF BANNACK AND VIRGINIA CITY.

OLD PROSPECTORS STILL PAN FOR GOLD IN MONTANA, CONVINCED THAT SOONER OR LATER THEY'LL STRIKE IT RICH. TOURISTS WHO EXPLORE DESERTED MINING TOWNS OFTEN COME UPON AN OLD FELLOW LIKE THIS ONE, DETERMINED TO MAKE THAT FORTUNE YET.

Montana Highway  
Commission Photos

To deal with the outlaws, a group of determined men banded themselves together as the Vigilantes, taking the Vigilante oath "to arrest thieves and murderers and recover stolen property." Founded in secrecy, they too, operated with symbols—the figures 3-7-77. What they mean no one actually knows. There are three possible explanations.

One is that 3-7-77 written below a skull and cross-bones, warned the recipient that his record was known and that the Vigilantes were giving him 3 hours, 7 minutes and 77 seconds to get out of town. Another version is that if the suspected road agent didn't leave immediately he had better be prepared to occupy a grave 3 feet wide, 7 feet long and 77 inches deep. But most likely the symbol was simply that of Vigilante organization, where each member was given a number instead of a name when he enrolled, and automatically numbers 3, 7 and 77 held executive position in the group.

With the hanging of Plummer and several of his gang, the reign of terror in Bannack was over and the more law abiding, though no less colorful inhabitants, went back to the excitement of taking over \$16 million in gold out of its bounty between 1862 and 1882.

Now a ghost town, Bannack's present lure is its wealth of historic memories and its typical western atmosphere as depicted by the many buildings still remaining.



AIR VIEW OF LIBBY, MONTANA, HOME OF THE HUGE ST. REGIS LUMBER OPERATIONS AND THE "ZONOLITE" DIVISION OF GRACE STEAMSHIP LINES

**A Wonderful Land of Scenic Splendor Which Will Now Have the Gigantic Push of the \$350,000,000 Libby Dam Project to Underwrite Its Inevitable Progress**

Libby is the Home of Widely Recognized Painter, Roy Porter

**A Visitor's MUST  
Roy Porter Studio and AUTHENTIC  
Prospector's Cabin in Libby**

Roy Porter, Libby, Montana, expresses his interest in the historical west by painting the life and times of the turn of the century. He has painted about 30 pictures of the homesteader of both the plains and the mountain areas and is continuing the series, interspersed by an occasional painting of the Prospector and early Woodsman.

While he finds the days of the romantic cattleman and the picturesque "bad man" of great interest and historical importance, he feels the final settling of the west by the families of homeseekers of equal importance and will dedicate his life to the portrayal of the ways and days of these hardy pioneers. He came from such a family himself and understands the trials and problems of the Homesteader.

Mr. Porter maintains a studio at Libby, but exhibits throughout the northwest. His interest in things historical has resulted in a fine collection of Western Americana which is housed in a genuine prospector's cabin at Libby and is open any time to visitors.





## **MONTANA -----**

**Where Modern Highways and  
Excellent Public and Private  
Landing Fields Put Primitive  
Areas at the Easy Reach of  
Tourists and Sportsmen From  
All Over North America**



ABOVE: INTERSTATE 90 PROJECT IN WESTERN MONTANA  
NEAR THE TOWN OF SUPERIOR

LEFT: FINE HIGHWAYS LIKE ABOVE TAKE YOU TO MANY FINE  
RETREATS SUCH AS LAKE MARY RONAN WHICH LIES JUST EIGHT  
MILES OFF HIGHWAY 93 AT DAYTON, MONTANA



ROY PORTER'S WELL KNOWN PAINTING, "EXPLORATION AND SETTLEMENT OF THE WEST." THE PAINTING IS A COMPOSITE PICTURING OF THE HIGHLIGHTS OF THE SETTLING OF WHAT BECAME MONTANA TERRITORY IN 1864. LEWIS AND CLARK ARE SHOWN CONFERRING WITH SACAJAWEA, THE INDIAN GIRL WHO WAS OF INESTIMABLE VALUE IN GUIDING THE EXPLORERS THROUGH THE ROCKY MOUNTAINS. THEY ARE CLOSELY FOLLOWED BY FUR TRADERS AND THE ARMY AND CAVALRY ARE THERE, AND A SUGGESTION OF THE CUSYER MASSACRE IS VISIBLE. THEN THE COVERED WAGONS CAME, AND THE CATTLEMEN AND SHEEPMEN, AND THE TRADERS. THE HUNTERS AND ADVENTURERS CONTINUE WESTWARD AND THE PROSPECTORS ARE LOOKING FOR A RICH STRIKE. ALL ARE SHOWN IN A WAY THAT GIVES THE IMPRESSION THAT EACH GROUP IS SEPARATED FROM THE REST. THE ORIGINAL INHABITANTS, THE INDIANS, ARE IN THE PICTURE TOO, AND IN THE MIDST OF IT ALL CAN BE SEEN CHARLIE RUSSELL THE ARTIST WHO PAINTED THE WEST SO COLORFULLY AND ACCURATELY.



THE BIG SKY TODAY

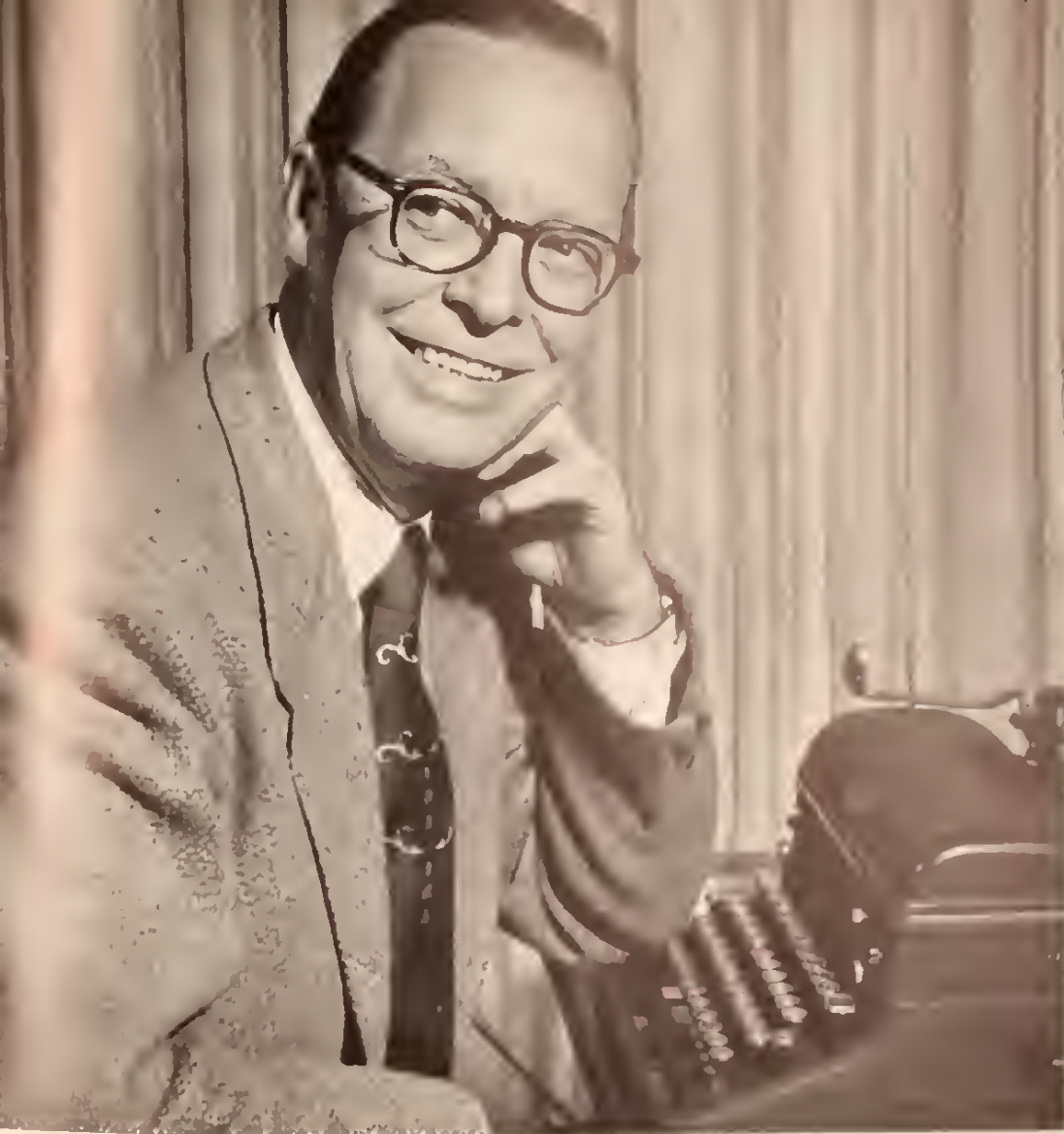
# THE BIG SKY COUNTRY

**The Summary Of Its Past and Present  
Activities is the Warrant Of Its  
Future Greatness . . .**

BELOW: SELF RELIANCE AND CONFIDENCE HAVE BUILT WELL FOR THE BIG SKY COUNTRY







I like to think of Montana as the "Big Sky Country." Not out of vanity, either. Though the phrase horrors from the title of a book I wrote, I get little credit and deserve less.

Actually it was my then publisher who fell on the title "The Big Sky." We had been searching in vain for a name for my monograph. It was while we were searching that he asked me to send him a bit of biographical material. In it, quite without thought of a title, I wrote of my father's first-day response to Montana "under the big sky." My publisher jumped on the phrase, and both of us thought it just right.

It is just right as a thumb-nail description of the state in which I have spent most of my years.

I am not at all upset when motels, subdivisions, resorts and the state itself use my words. I am flattered somewhat, of course, but better than flattery is the proof that Montanans relate description to state.

"Big Sky Country." Once in your system, it stays there.

A. B. Guthrie, Jr.

## A CAPSULE HISTORY OF THE BIG SKY COUNTRY

First residents of Montana were Indians who, for centuries, migrated into the area from four sides, living in the valleys on both slopes of the Continental Divide. Plentiful bison, or buffalo, furnished nearly everything these Indians needed for life. While the Montana plains Indians, including the Blackfeet of the Glacier Park area, fought over buffalo hunting grounds, the mountain Indians invaded these same grounds through the high passes to the west.

White men, pushing westward from the eastern seaboard, dislocated eastern and midwestern Indians and thus changed the history of Montana long before they reached it. As Indians acquired unproved weapons and moved westward, dislocations began and war between the state's nine tribes bristled.

If the Indians had been united against white men, Montana history might have been different. But the Indians weren't, and the white man soon converted the Land of Shining Mountains to his own purposes.

First white men in what is now Montana probably was Francois or Louis Verendrye, believed to have crossed the southeast corner New Year's Day, 1743, while seeking white men reputedly living on a salt sea. The Verendryes turned back in Wyoming, just south of the Montana line.

The Lewis and Clark expedition reached Montana's eastern border, at the junction of the Missouri and Yellowstone Rivers, April 25, 1805, and four days later began to ascend the Missouri. Montana was the only place where the captains conducted side expeditions. On the return in 1806 Captain Lewis came as far north as Cut Bank Creek, just east of Glacier Park, and Captain Clark explored the Yellowstone River in southern Montana.

Most famed member of the Lewis and Clark expedition, aside from the captains was John Colter, who returned to the mountain side as a guide for Manuel Lisa, Missouri fur trader. The fort they built in November, 1807, at the junction of the Missouri and Big Horn Rivers in southern Montana was the first structure built in the state.

At almost the same time David Thompson, Hudson's Bay Company explorer, entered the northwest corner of Montana and sent his clerk, Finan McDonald, to build a post on the Kootenai River about 30 miles east of the Idaho border in the fall of 1808. The fur trade made men rich and established the state's reputation on the eastern seaboard.

In the 1830's such men as Prince Maximilian of Wied, with his artist, Karl Bodmer; John James Audubon and others came to Montana to record the new, raw country in picture and word. Even Europe came to know the new country beyond the Mississippi.

Gold followed furs as the drawing card for men seeking wealth in the new west. The first yellow flakes were found at Gold Creek in western Montana, possibly by Francois Finlay in 1852 and without doubt by the Stuart brothers in 1858. By 1862 the fur empire crumbled and the rush for gold was on. All this metallic fever brought new transportation needs. Before 1859 the mouth of the Yellowstone River had been the head of navigation on the Missouri. In 1860 the Chippewa reached Fort Benton, head of river traffic for a quarter century. Rich Alder and Lost Chance Gulches needed supplies and a stream of miners arrived by water from St. Louis, while gold dust, nuggets and buffalo robes returned downstream. Fort Benton stood off all competitors as center of river commerce in Montana.

At the end of the fur trade buffalo robes became the big item, but by 1884 the last wild buffalo had been killed and the grasslands were beginning to fill with cattle driven from the southwest.

Mass killing of buffalo angered the Indians and the victory of Sioux and Cheyenne over Custer in 1876 brought eastern pressure to tame the West for the settlers. In the fall of 1877 Chief Joseph of the Nez Perce surrendered on Snake Creek in northern Montana, the last organized military campaign of the Indians in the nation.

By 1864 Montana had become a territory. Mining and livestock raising brought demands for railroads and, in 1881, Utah Northern, now Union Pacific, built into southwestern Montana. Two years later Northern Pacific crossed from east to west. Close behind it was the Great Northern, which finished its line into Montana in 1892. Great Northern's empire builder, Jim Hill, brought with him the first scientific development of grain farming and livestock raising. The day of the stagecoach and freight wagon was over.

In 1889 Montana was admitted to statehood and its pioneer days were over.



LEFT CHURCHES —  
LARGE AND SMALL.  
CARRY ON THE  
RELIGIOUS ASPECTS OF  
THE BIG SKY COUNTRY

LEFT: YOUTH ACTIVITIES INTEREST  
YOUNG MONTANANS IN THEIR  
PARTICULAR CHURCH'S PROGRAMS  
RIGHT: THE LEGENDARY COTTONWOOD  
TREE NEAR ST. XAVIER WHERE FATHER  
DESMET PREACHED TO THE INDIANS  
IN 1840



## CHURCHES AND THE WORSHIP OF GOD

The character and the strength in the stern, adventurous men who pioneered in settling the Big Sky Country over a century ago, has stayed firmly rooted and today is still a vital force in the shaping of Montana . . .

In the society of any region, the influence of religious institutions is reflected in the order and progress of the area . . .

In the metropolitan centers, active and influential churches furnish leadership, cultural standards, outstanding personnel and large financial support to the entire Christian enterprise as a force in the competing concerns of city life. And everywhere in the rural areas, religious life characterizes community activity. There is organized strength in the large church institutions and a powerful influence upon the state centered in the lesser congregations.

Vital "grass roots" church enterprises cater to the spiritual guidance of the rural or semi-rural neighborhoods in Montana. Montana has gradually attracted all cults and given refuge to all sects and denominations, in whose houses of worship man may seek communion.



BILLINGS OFFICE WHERE ALL TYPES OF QUALITY  
CLAY PRODUCTS ARE ON DISPLAY TO HELP  
YOU CHOOSE THE COMBINATIONS YOU WANT



## THE LOVELL CLAY PRODUCTS COMPANY

### Manufacturers of Quality Clay Products

The Lovell Clay Products Company's close manufacturing tolerances and fine heat control assure a high quality line of Brick and Structural Clay Tile unequalled for quality construction. The use of Brick and Structural Clay Tile is a guarantee of permanence and beauty.

PERMANENT BUILDING PRODUCTS MANUFACTURED BY  
THE LOVELL CLAY PRODUCTS COMPANY

FACE BRICK

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SERVING THE BIG SKY COUNTRY SINCE 1929  
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**Then Take a Long, Factual Look at Montana,  
The Big Sky Country, Where Industry, Labor,  
Business and Government All Work Hand in  
Hand For the Betterment of All - - -**

HOME FOR THE AGED



**IF YOU ARE INTERESTED IN A FAVORABLE BUSINESS  
AND TAX CLIMATE FOR YOUR NEW PLANT . . . HIGHLY  
SATISFIED AND QUALIFIED LABOR; FINE RAIL, TRUCK  
AND AIR TRANSPORTATION; OCEANS OF PURE, COOL  
MOUNTAIN WATER--RAW MATERIALS IN GREAT QUAN-  
TITIES -- PLENTIFUL POWER, ELECTRICITY, GAS, COAL**

PLEASANT LIVING  
WITHIN MINUTES OF  
PRIMITIVE AREAS



Preparing for the Future . . .



**WE NEED YOU  
To Complete the  
Picture of  
MONTANA PROGRESS**

**In Montana it is Only Minutes  
From Future Plant Sites to the  
World's Most Fabulous  
Recreational Opportunities**



**WRITE, WIRE  
OR PHONE  
THE STATE  
PLANNING  
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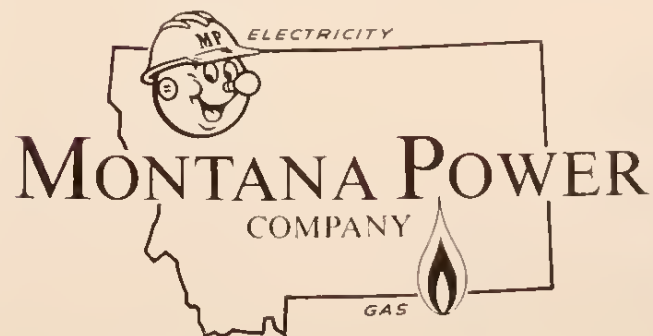


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Keeping ahead of Montana's growing needs for electric and gas service means that we will invest nearly \$86,000,000 in the next five years in new lines, construction, substations, plants, equipment and exploration.

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PHOTOGRAPHS ARE REPRESENTATIVE OF ONLY A FEW  
OF THE MANY GROWING MONTANA INDUSTRIES

TOP: PLYWOOD PLANT

BOTTOM, LEFT TO RIGHT: STRIP COAL MINING, —  
TOURIST, HUNTING, FISHING INDUSTRIES — FOREST  
PRODUCTS — OIL AND GAS



### Too Late to Classify in Directory

Big Horn Fertilizer Company—Hardin  
Brandex Corporation—Missoula  
Clay in Calico—Cardwell  
Diehl Lumber Company—Plains  
Farmers Union Dlt Cooperative—Laurel  
Free Enterprise Mine—Boulder  
Harp Line Constructors, Inc.—Kalispell  
Hoagland Welding—Terry  
Kalispell Lithograph—Kalispell  
Lame Deer Mining—Lame Deer  
Lewis Logging Company—Bozeman  
Missoula Cartage Company—Missoula  
Musselshell Lumber Company—Roundup  
Peavey Co Producers Service—Terry  
Prairie Industries, Inc—Terry  
R and H Lockers—Terry  
Reyman Sand & Gravel—Terry  
Rocky Mountain Phosphate Company—Garrison  
The Terry Tribune—Terry

### No Information Reported

CARBON COUNTY  
DANIELS COUNTY  
DAWSON COUNTY  
FALLON COUNTY  
GOLDEN VALLEY COUNTY  
LINCOLN COUNTY  
MCDONE COUNTY  
MEAGHER COUNTY  
PRAIRIE COUNTY  
SANDERS COUNTY  
SHERIDAN COUNTY  
TREASURE COUNTY

Please Make Sure Your County is Represented in the Next  
Edition of the Manufacturer's Directory





1965 - 1966

# MONTANA DIRECTORY OF MANUFACTURERS AND BUYER'S GUIDE

MONTANA STATE PLANNING BOARD  
SAM W. MITCHELL BUILDING  
HELENA, MONTANA 59601

MONTANA STATE PLANNING BOARD  
Tim Babcock, Governor

Samuel J. Chapman, Director	Patrick A. Byrne Economic Analyst	Robert E. Matson Resource Analyst
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## Services Available

### Plant Location.

The Montana State Planning Board offers a professional plant location service on a completely confidential basis. It is prepared to match your plant location requirements with Montana communities, and to provide full information on sites meeting your specifications.

### Economic Data.

The Board functions as a clearing house for statistical information about Montana, its people, resources, and industry. Fact folders are available covering a number of location factors, including electric power, industrial fuels, water resources, agriculture, forest industries, mineral resources and a general fact summary.

### Research Services.

Personalized services in providing market, resource, and other data to meet individual requirements are available through the Board's staff and its associated services located throughout the six institutions of the Montana University System.

## FOREWORD

The 1965-1966 edition of the Montana Directory of Manufacturers and Buyer's Guide contains information on location and products of the manufacturers in Montana. This directory was compiled in the offices of the State Planning Board from information supplied entirely by Chambers of Commerce, local business groups and service or business organizations located in the various counties of Montana counties.

Acknowledgements for cooperation and assistance in the gathering of information are gratefully extended to the state and local Chambers of Commerce, Extension Service, Montana State Unemployment Compensation Commission, and many other local development and service organizations and individuals.

A special thanks goes to Mrs. Dorothy Goggin, Mrs. Edna R. McCarthy of the Planning Board Staff. Their expert clerical assistance in the preparation of this material represented a tremendous task.

Without the wholehearted support of all those who have helped in the preparation of this directory, it would not have been assembled.

This book has been carefully checked for accuracy, but it is inevitable that some errors will occur despite all of the care given. If you find an error, please notify the State Planning Board and it will be noted for correction.

## HOW TO USE THE DIRECTORY

### To find information on a particular manufacturing company.

Alphabetical Listing of Manufacturers. Turn to the alphabetical listing of manufacturers. Turn to the section of the Standard Industrial Classification Listing. Turn to the section of the Standard Industrial Classification Listing, Part III. Full information about the plant will be found under that name. If the company has more than one establishment in Montana, each establishment will be listed in the alphabetical listing under the company name with the code number. To find information about the company's location in Montana, turn to each section of the Standard Industrial Classification Listing.

To find information on manufacturing plants in a particular city, turn to the Geographical Listing of Manufacturers. Establishments are listed alphabetically by city within counties. Consult the Index of Cities in Montana, which consists of the first few pages in Part II. Opposite the city name will appear the county in which it is located. Then turn to the county section indicated to find the manufacturers in that city. Opposite each plant listed will show the S. I. C. code or codes which refer again to the Standard Industrial Code Classification Listing, Part III.

To find information about manufacturing plants producing a particular product, turn to Part IV the Index of Products. Opposite the product description will be a code number or numbers referring to a section of the Standard Industrial Code Classification Listing, Part III. In that section will be found a list of manufacturing plants in Montana producing that particular product, and which will be listed alphabetically by city. There has been no distinction made whether the product can be considered the firm's major production effort.

## EXPLANATION OF LISTINGS

### Organization of the Directory

This directory is divided into four major sections: Part I, an alphabetical listing of all manufacturers in Montana; Part II, a geographical listing of manufacturing establishments alphabetically by city within counties; Part III, a Standard Industrial Code Classification listing manufacturers alphabetically by city according to code progressions; and Part IV, an alphabetical index of products produced in Montana. Complete information about a manufacturing firm is provided only in one place in the directory in the Standard Industrial Code Classification listing. All other lists of this publication refer the user to that section.

### Part I. Alphabetical Listing of Montana Manufacturers

Company names are shown as they appeared on the informational material received in this office. In addition to listing the name of manufacturing establishments and the S. I. C. code number or numbers, the city of the plant's location is also presented.

### Part II. Geographical Listing of Manufacturing Establishments

The geographical listing has been arranged by county, so that it can be correlated with Census of Manufacturers figures which are reported by county. Within each county section cities are listed alphabetically and, under each city, manufacturers are listed alphabetically. Also included in this section is a complete listing of cities in Montana and the counties in which they are located. This index of Montana cities represents the first few pages of Part II.

### Part III. Standard Industrial Code Classification Listing

The major entry in the Standard Industrial Code Classification listing for each manufacturing plant contains the following information: name of company; street address (actual location of the physical plant); mailing address (if different from street address); name of principal officer or person to contact at this establishment and description of products manufactured at the plant. The title as well as the name of the person to contact at each establishment is shown, where provided, to aid the buyer in selecting the companies he wishes to contact.

### Code Numbers

The four-digit code number under which the Standard Industrial Code Classification listing is organized, are the Standard Industrial Classification (S. I. C.) codes established by the U. S. Bureau of the Budget and published in its **Standard Industrial Classifications Manual** of 1957 as amended by the Supplement of 1958. These codes were developed in order to promote uniformity and comparability in the presentation of statistical data collected by various agencies of the U. S. Government, state agencies, trade associations, and private research organizations. Accordingly, the codes used in this directory conform with the industrial classifications used in the **U. S. Census of Manufacturers**.

### S. I. C. Codes

The major S. I. C. code number, under which full information on each manufacturing establishment can be found in the Standard Industrial Code Classification Listing, (Part III), has been assigned according to the practice of the U. S. Bureau of the Budget on the basis of the plant's principal product in terms of value of shipments. However, in order to provide a complete listing of sources of different products produced in Montana, it was necessary to assign additional code numbers to the minor products of

manufacturing plants. This is contrary to the practice of the U. S. Bureau of the Budget. For example, the Bureau would simply assign the S. I. C. code 2751 to a printing establishment which primarily does job printing on a type-set printing press, but which also publishes a local newspaper, does lithograph printing, and prints business forms and ruled note book paper. In this directory the printing establishment would not only be classified 2751 but also additional codes corresponding to each separate operation: 2711, newspaper publishing; 2752, lithograph printing; 2761, business forms; and 2782, ruled note book paper.

### Part IV. Alphabetical Index of Products

This alphabetical list of manufactured products is designed for use as an index to only those products actually manufactured in Montana. Again, the only products listed are those which were supplied by our informational sources.

CONTENTS	Page
Services Available	201
Foreword	201
Explanation of Listings	202
How to Use the Directory	201
Alphabetical Listing of Manufacturers, Part One	203
Geographical Listing of Manufacturers, Part Two	209
Listing of Manufacturers by County	209
WHAT DOES MONTANA OFFER YOU?	
Standard Industrial Code Classification, Part Three	219
19 Ordinance and Accessories	219
20 Food and Kindred Products	219
23 Apparel and Other Finished Products	225
24 Lumber and Wood Products (Except Furniture)	226
25 Furniture and Fixtures	228
26 Paper and Allied Products	229
27 Printing and Publishing and Allied Industries	230
28 Chemicals and Allied Products	233
29 Petroleum Refining and Related Industries	234
30 Rubber and Miscellaneous Plastics Products	234
31 Leather and Leather Products	234
32 Stone, Clay, and Glass Products	235
33 Primary Metal Industries	237
34 Fabricated Metal Products (Not Elsewhere Classified)	238
35 Machinery, (Except Electrical)	240
36 Electrical Machinery, Equipment and Supplies	241
37 Transportation Equipment	241
38 Professional, Scientific, and Controlling Instruments	242
39 Miscellaneous Manufacturing Industries	242
Alphabetical Index of Products, Part IV	244



## PART ONE

# Montana Manufacturer's Alphabetical Listing

### A

Aaberge Leather Shop, Valer, 3171, 3172, 3199  
 A & A Concrete Lawn Ornaments, Billings, 3272  
 A A Printers & Lithographers, Great Falls, 2751, 2752  
 Avery Adams, Bozeman, 2411  
 Adams Machine Shop, Shelby, 3591  
 The Advertiser, Missoula, 2751  
 Agate & Silver Shop, 3911  
 Lawrence L. Agnew, Whitefish, 2421  
 A & I Rapid Print Co., Billings, 2752  
 Al & Ted's Honey Shop, Helena, 2842, 2099  
 Albertson's Bakery, Missoula, 2051  
 J L Alexander, St. Regis, 2421  
 Allied Art Studio, Bozeman, 3993  
 Allied Manufacturing Co., Bozeman, 3941  
 Aluminum Products, Inc., Kalispell, 3442  
 American Chemet Corporation, Sheridan, 3295  
 American Chemet Corporation, East Helena, 2851, 3295, 3333  
 American Crystal Sugar Co., Missoula, 2063  
 American Dental Manufacturing Co., Missoula, 3843  
 American Sheet Metal & Roofing Service, Inc., 3444  
 American Sign Service, Kalispell, 3993  
 American Smelting & Refining, East Helena, 3332  
 American Timber Co., Kalispell, 2421  
 Americana Homes, Inc., Billings, 2433  
 Anaconda Aluminum Co., Columbia Falls, 3334  
 The Anaconda Company, Anaconda, 3331  
 The Anaconda Company, East Helena, 2816  
 The Anaconda Company, Great Falls, 3341  
 Anaconda Forest Products, Bonner, 2421, 2433  
 Anaconda Tin Shop, Anaconda, 3444  
 Anaconda Wire & Cable Co., Great Falls, 3351, 3352  
 Anchor Engineering Rebuilders, Butte, 3714  
 Anderson's Frozen Foods, Inc., Miles City, 2011  
 George C. Anderson, Lincoln, 2411  
 Henry G. Anderson, Superior, 2411  
 Anderson Iron Works, Miles City, 3443  
 Anderson Sheet Metal Works, Dillon, 3444  
 H Fritz Apostel, Butte, 2511  
 Arno's Saddle Shop, Great Falls, 3199  
 Armco Steel Corp., Billings, 3444  
 Arrior Metal Products, Helena, 3443, 3522, 3693  
 Arras Tank Company, Cut Bank, 3443  
 The Artcraft Printers, Inc., Bozeman, 2751, 2752  
 Artificial Ice & Cold Storage Co., Billings, 2097  
 Gilbert M. Arts, Bozeman, 2411  
 Ashland Lumber Co., Ashland, 2421  
 Ashton Engraving, Butte, 2752, 2793  
 Austin Packing Co., Glasgow, 2011  
 Ayrshire Dairy, Inc., Great Falls, 2026

### B

Badgley Machine Shop, Bozeman, 3522  
 George C. Bagley Elevator Co., Miles City, 2042  
 Dean Bailey, Polson, 3591  
 Dan Bailey's Fly Shop, Livingston, 3949  
 Richard V. Bain Cabinet Shop, Kalispell, 2511  
 Baird's, Inc., Lewistown, 3442  
 Baker Logging, Missoula, 2411  
 Baker's Jewelry, Glasgow, 3961  
 Bancroft Apiaries, Malta, 2099, 2842  
 Barnes Brothers, Gallatin Gateway, 2411  
 Earl Barnes, Dillon, 2099  
 Barnes Logging, Manhattan, 2411  
 Joseph W. Barnett, Bozeman, 2099  
 Barsotti Bros. Meat Packing Co., Great Falls, 2011  
 Bass Creek Post & Pole Plant, Stevensville, 2491  
 F Roy Bauer, Kalispell, 2411  
 B-Dri Company, Missoula, 2842  
 Art Beach, Wilsall, 2411  
 Beall, Inc., Billings, 3715  
 Beatrice Foods Company, Billings, 2021, 2024, 2026  
 Beatrice Foods Company, Great Falls, 2024, 2026  
 Beauty Vent Awning Mfg Co., Billings, 3442  
 Beaverhead Concrete, Dillon, 3273  
 Beaverhead Machine & Welding Shop, Dillon, 3591  
 Beaverhead Printers, Dillon, 2721  
 Becker & Munyan Logging Co., Gallatin Gateway, 2411  
 Beckman Bros., Inc., Great Falls, 2371, 3111, 3141, 3151  
 Beebe's Bakery, Missoula, 2051  
 Bees Best Honey, Ekalaka, 2099  
 Belgrade Alfalfa Products, Belgrade, 2042  
 Belgrade Creamery, Belgrade, 2021, 2024  
 Bell Manufacturing Corp., Kalispell, 3791  
 Bell Saddlery Shop, Browning, 3171, 3172, 3199  
 Benton Body & Sign Shop, Fort Benton, 3993  
 Bentz Sheet Metal, Polson, 3444  
 Berger Meat Co., Inc., Great Falls, 2011  
 Berglund & Orr, Lincoln, 2411  
 Berkley Equipment & Machine Works, Billings, 3599  
 Berton's Bakery, Bozeman, 2051  
 Best Dairy Farms, Bozeman, 2024, 2026  
 Bestway Building Center, Bozeman, 3273  
 Bestway Lumber Co., Conrad, 3273  
 Beverages of Billings, Inc., Billings, 2086  
 Biastock Meats, Butte, 2011  
 Frank C. Bidwell Sawmill, Broadus, 2421  
 Big Bear Inc. of Montana, Pahr, 2861  
 Big Broadway, Missoula, 2394  
 The Big Dipper, Dillon, 2024  
 Big Horn Canning Company, Billings, 2033  
 Big Sky Logging Co., Superior, 2411  
 Big Sky Packing Company, Lewistown, 2011  
 Big Stack Chip & Food Company, Great Falls, 2099  
 Big Timber Bakery, Big Timber, 2051  
 Big Timber Fly Shop, Big Timber, 3949  
 Big Timber Pioneer, Big Timber, 2711, 2751  
 Big West Oil Company, Kevin, 2911  
 Billings Engraving Co., Billings, 2793  
 Billings Machine & Welding Shop, Inc., Billings, 3591  
 Billings Neon Manufacturing Co., Billings, 3993  
 Billings Orthopedic Appliance Shop, Billings, 3842  
 Billings Prepared Potato Co., Billings, 2099  
 Billings Rendering Co., Billings, 2094  
 Billings Sash & Door Co., Billings, 2431  
 The Billings Times, Billings, 2711, 2751  
 Bill's Bakery, Helena, 2051  
 Bill's Key & Repair, Helena, 3429  
 Bill's Sheet Metal, Great Falls, 3444  
 Birds Home Baked Goods, Butte, 2051  
 Gene Birky, Kalispell, 2411  
 Harry Birky, Kalispell, 2411  
 Jacob Birky, Columbia Falls, 2411  
 Birley Logging, Livingston, 2411  
 Bitter Root Cannery, Hamilton, 2033  
 Bitter Root Irrigation & Fertilizer, Co., Hamilton, 2872  
 Bitter Root Ready Mix, Hamilton, 3273  
 Bitterroot Timber Industries, Inc., Darby, 2421  
 Black Lumber Co., Inc., Lodge Grass, 2421  
 Blackfoot Forest Products Co., Lincoln, 2491  
 Blanchard Ice Cream Company, Butte, 2024  
 F W. Blanchard Logging, Gallatin Gateway, 2411  
 Blue Front Blacksmith & Welding Shop, Billings, 3591  
 Blue Rock Products Co., Sidney, 2086  
 Blue Star Bakery, Havre, 2051  
 Robert G. Bondurant, Alberton, 2411  
 Bonita Logging Co., Clinton, 2411  
 Bonnie Lorraine Candy Shop, Billings, 2071  
 Bon-Ton, Inc., Missoula, 2051  
 Bon-Ton Inc. of Billings, Bozeman, 2042  
 Boulder Monitor, Boulder, 2711, 2751  
 Bouma Post Yard, Choteau, 2491  
 Bouma Post Yard, Lincoln, 2491  
 Bowen-Wilson Honey Producers, Twin Bridges, 2099, 2842  
 Allen Bowlev Whitefish, 2421  
 Boyd's Donuts, Bozeman, 2051

Boyd's Jewelry, Inc., Bozeman, 3961  
 Bozeman Coca-Cola Bottling Co., Bozeman, 2086  
 Bozeman Granite Works, Bozeman, 3281  
 Bozeman Sheet Metal, Bozeman, 3444  
 Bradford Machine Works, Helena, 3531  
 Brilliant Neon Co., Butte, 3993  
 Brinkerhoff Logging, Hamilton, 2411  
 Broadwater Creamery, Townsend, 2021, 2024, 2026  
 Broeder Bros. Lumber Co., Kalispell, 2411, 2421  
 Brookside Dairy, Missoula, 2021, 2024, 2026  
 Brown Bros. Christmas Tree Yard, Whitefish, 2411, 2499  
 Rex Brown Lumber Company, Browning, 2421  
 Brown's Auto Parts & Machine Co., Butte, 3591  
 Bruce's Donut Bar, Butte, 2051  
 Bud's Locker & Freezer, Hardin, 2011, 2013  
 Bud's Welding & Machine Shop, Conrad, 3591  
 Buck Cabinet & Fixture Co., Missoula, 2511  
 Buck's Work & Ranchwear, Helena, 3199  
 Builders Mart, Inc., Billings, 2431  
 Builders Products, Inc., Three Forks, 3271  
 Building Specialties, Billings, 2899  
 G I. Burk, Olney, 2411  
 Burkland Studs, Inc., Livingston, 2421  
 Burnham Logging, Corvallis, 2411  
 Burns Yaak River Lumber Co., St. Regis, 2421  
 Butte Brass & Controls, Butte, 3494  
 Butte Brewing Corp., Butte, 2082  
 Butte Machinery Co., Butte, 3591  
 Butte Neon Outdoor Advertising Co., Butte, 2093  
 Butte Orthopedic Appliance Co., Butte, 3842  
 Butte Sash & Door, Butte, 2431  
 Butte Tin Shop, Inc., Butte, 3444  
 Buttre's East Gate Bakery, Missoula, 2051  
 Buttre's Super Bakery, Missoula, 2051

### C

The Cabinet Shop, Kalispell, 2511  
 Caird Engineering Works, Helena, 3443, 3599  
 Calahans Market, Havre, 2036  
 William T. Callantine, Three Forks, 2411  
 Robert J. Cameron, Missoula, 2411  
 Campbell Sawmill, Townsend, 2421  
 Canyon Logging Co., Martin City, 2411  
 Canyon View Lumber Co., Livingston, 2421  
 Capital Dental Laboratory, Helena, 3843  
 Capitol Neon, Inc., Helena, 3993  
 Stephen Ray Card, Bozeman, 2411  
 Cascade Coach Co., Great Falls, 3791  
 Cascade Courier, Cascade, 2711, 2751  
 Cascade Machine Works, Whitefish, 2421, 2432  
 Cascade Sheet Metal, Great Falls, 3444  
 Casey's, Inc., East Helena, 2421  
 Cass Mattress & Upholstery, Bozeman, 2512, 2515  
 C & C Plywood Corp., Kalispell, 2432  
 Cedar Creek Shop, Superior, 3591  
 Central Feed Co., Lewistown, 2042  
 Central Montana Publishing, Lewistown, 2711, 2751, 2752  
 Central Pre-Mix, Inc., Cut Bank, 3273  
 Central Wholesale, Inc., Livingston, 2086  
 Century Distribution, Great Falls, 2511  
 Bill Chaney, Belgrade, 2411  
 Chaney Plumbing Co., Livingston, 3444  
 Chet & Harold Sheet Metal, Lewistown, 3444  
 Chicago Furniture & Mattress Co., Butte, 2515  
 Chinook Bakery, Chinook, 2051  
 Chinook Opinion, Chinook, 2711, 2751  
 Chord Logging, Missoula, 2411  
 Choteau Acantha, Choteau, 2711, 2751  
 Choteau Bakery, Choteau, 2051  
 Choteau Sheet Metal, Choteau, 3444  
 Christensen's Wholesale Meats, Missoula, 2013  
 Circle K Packing, Kalispell, 2011  
 City Bakery, Stevensville, 2051  
 City Heating & Tin Shop, Butte, 3444  
 City Meat Co., Wolf Point, 2011  
 City Roofing & Sheet Metal Co., Missoula, 3444  
 Claridge Logging Co., Inc., Polson, 2411  
 Clark Logging, Missoula, 2411  
 Clarks Fork Company, Missoula, 2421  
 Clark's Orthopedic Supply, Great Falls, 3842

Clark's Orthopedic Supply, Missoula, 3842  
 Clean Cut Meats, Bozeman, 2011  
 Clearwater Logging, Inc., Seeley Lake, 2411  
 Cloverdale Apiaries, Manhattan, 2099 2842  
 Clover Leaf Dairy, Helena, 2024, 2026  
 Clyde's Cabinet Shop, East Helena, 2511  
 Coca-Cola Bottling Co., Glasgow, 2086  
 Coca-Cola Bottling Co., Havre, 2086  
 Coca-Cola Bottling Co., Lewistown, 2086  
 Coca-Cola Bottling Co., of Miles City, Miles City, 2086  
 Coca-Cola Bottling Co., Missoula, 2086  
 Auburn Cockerham, Belgrade, 2411  
 Coffman Lumber & Treating Company, Inc., Billings, 2491  
 Cole's Machine Shop, Kalispell, 3591  
 Collins Sheet Metal Works, Anaconda, 3444  
 Colonial Cake Shop, Inc., Butte, 2051  
 Columbia Paint Co., Helena, 2851  
 Columbus Creamery, Columbus, 2021, 2024, 2026  
 Columbus News, Columbus, 2711, 2751  
 Columbus Saddle & Shoe Shop, Columbus, 3171, 3199  
 Columbus Welding & Blacksmith Shop, Columbus, 3591  
 Commercial Sign & Sho-Card Shop, Helena, 3993  
 Community Creamery, Missoula, 2024, 2026  
 Concrete Products Co., Inc., Billings, 3271, 3272  
 Concrete Service, Inc., Great Falls, 3, 73, 3295  
 Connelley's Livingston Creamery, Livingston, 2021, 2024, 2026  
 Coultas Conner Logging, Darby, 2411  
 Del Conner Lumber, Inc., Darby, 2421  
 Roger B. Conner, Darby, 2411  
 Conrad Bakery, Conrad, 2151  
 Conrad Packing Co., Conrad, 2011  
 Consolidated Dairies of Lake County, Inc., Ronan, 2021, 2022, 2024, 2026  
 Consumers Paint Manufacturing Co., Billings, 2851  
 Continental Concrete Co., Butte, 3273  
 Continental Oil Company, Billings, 2911, 2951  
 Coonhies Interiors, Butte, 2591  
 Corcoran Pulpwood Co., Bozeman, 2411  
 Chesler A. Corneliuson, Kalispell, 2411  
 Cove-Lock Log Homes, Great Falls, 2433  
 Craig's Bakery, Great Falls, 2051  
 Creston Post & Pole Yard, Kalispell, 2491  
 Edward L. Crouch, Milltown, 2411  
 Crystal Creamery, Butte, 2021, 2022, 2024, 2026  
 Culbertson, Inc., Missoula, 3443, 3449  
 Curran Sign Co., Missoula, 3993  
 Curtis Rack & Endgate, Forsyth, 3522  
 Cut Bank Pioneer Press, Cut Bank, 2711, 2751  
 Cut Bank Sand & Gravel, Cut Bank, 3273, 3295  
 Cut Bank Sheet Metal Works, Cut Bank, 3444  
 Cuttinns Sheet Metal & Roofing, Miles City, 3444  
 C & W Construction & Mfg. Co., Inc., Stevensville, 3273, 3295

## D

Dahlgren's Upholstery, Missoula, 2512  
 John R. Daily, Inc., Missoula, 2011  
 Dairyland Wholesale, Helena, 2024  
 Dalimata & Son, West Glacier, 2421  
 Daniels Sheet Metal, Billings, 3444  
 Danielson Brothers, Polson, 2421  
 Dargold Farms, Bozeman, 2021, 2022, 2024, 2026  
 Dwight Darrah, East Helena, 2421  
 Dave's Heating & Air Conditioning Service, Billings, 3444  
 Ernest D. Davis, Big Arm, 2411  
 Howard W. Davis, Lincoln, 2421  
 Dayton Timber Co., Inc., Dayton, 2411  
 Jean P. DeBree, Helena, 2421  
 Deer Lodge Creamery, Anaconda, 2021, 2024, 2026  
 Delaney & Sons, Inc., Lincoln, 2421  
 Delaney's Bureau of Printing, Missoula, 2752  
 Del-Ken Construction Co., Anaconda, 2431, 2511  
 DeVore's Saddlery, Helena, 3199  
 D & H Wholesale Meats, Missoula, 2013  
 Diamond Asphalt Co., Chinook, 2911, 2951  
 Diamond National Corporation, Superior, 2421  
 Dick's Agate Shop, Polson, 3281, 3911  
 Dick's Shop, Ekalaka, 3171  
 Dillon Daily Tribune Examiner, Dillon, 2711, 2751  
 Dillon Heating & Tin Shop, Dillon, 3444

Dillon Rendering Co., Dillon, 2094  
 Donald Doane Logging, Columbia Falls, 2411  
 Dobson's Implement, Malta, 3591  
 Doll House Candies, Billings, 2071  
 Donaldson's Ready-Mix, Hamilton, 3273, 3295  
 The Donut Shop, Polson, 2051  
 Dorrington Dental Laboratory, Helena, 3843  
 Draperies by Duane, Helena, 2391  
 Drapery & Venetian Blind Co., Missoula, 2391, 2591  
 Duffield's Cabinet Shop, Great Falls, 2431  
 Dunbar Sawmill, Victor, 2421  
 Dupuis Bros. Lumber Co., Polson, 2421  
 Durant Sand & Gravel, Dillon, 3273  
 Dwyer Bros. Lumber Co., Townsend, 2421

## E

Eagle Publishing Co., Ekalaka, 2711  
 Earling Logging Co., Inc., Arlee, 2411  
 Eastern Model Railway Company, Hungry Horse, 3941  
 Eddy Bakeries Cake Shop, Helena, 2051  
 Eddy Bakeries Co., Great Falls, 2051  
 Eddy Bakery, Missoula, 2051  
 Eddy's Bakery, Billings, 2051  
 Eddy's Bakery, Butte, 2051  
 Eddy's Bakery, Havre, 2051  
 Edsall Construction Co., Bozeman, 2511  
 Educational Co-op Publishing Co., Helena, 2721  
 Egan Metal Products, Conrad, 3444  
 Eggar Construction Service, Livingston, 3273, 3295  
 Elder Brothers Logging, Belgrade, 2411  
 Electric City Printing Co., Great Falls, 2751, 2752  
 Electric Maid Bakery, Kalispell, 2051  
 Electrical Products Consolidated, Great Falls, 3993  
 Elk Horn Lumber Co., Inc., Missoula, 2421  
 Elk River Concrete Products Co., of Montana, Billings, 3272  
 Elk River Concrete Products Co., of Montana, Great Falls, 3272  
 Elk River Concrete Products Co., of Montana, Helena, 3272  
 Elk Stud Mill, West Yellowstone, 2421  
 Emerson Stud Mill, Townsend, 2421  
 Empire Heating & Cooling Co., Billings, 3444  
 Empire Printing, Inc., Billings, 2751  
 Empire Steel Manufacturing Co., Billings, 3443  
 Engebretson Gravel, Inc., Kalispell, 3295  
 English Sheet Metal, Inc., Bozeman, 3444  
 Engstrand & Hicks Co., Conrad, 3295  
 Erick's Print Shop, Inc., Great Falls, 2751, 2752  
 Charles J. Ericson, Inc., West Yellowstone, 2411, 2421  
 Erly Corporation, Choteau, 3499  
 Don Evans Sawmill, Lincoln, 2421  
 Evan's Sheet Metal, Browning, 3444  
 Evans Shop, Helena, 3449  
 Jess Evans Welding, Philipsburg, 3591  
 Eva's Bakery, Helena, 2051  
 Loren S. Everett, Kila, 2411  
 Everett Wood Products, Kalispell, 2421  
 Evergreen Products Co., Inc., Missoula, 2411  
 Evergreen Timber Company, Kalispell, 2421  
 E Z Logging, Clinton, 2411  
 E Z Pickup Covers, Bigfork, 3791

## F

Fabian Machine & Welding Co., Lewistown, 3591  
 F & C Mill, Kalispell, 2421  
 Fagenstrom & Son, Great Falls, 3271  
 Fair Weather Logging, Missoula, 2411  
 Fairfield Seed & Feed, Fairfield, 2042  
 Fairfield Shoe Shop, Fairfield, 2394  
 Fairfield Times, Fairfield, 2711, 2751  
 Fairview Bulk Fertilizer Plant, Fairview, 2872  
 Fairview News, Fairview, 2711, 2751  
 Falls Sheet Metal Works, Great Falls, 3444  
 Far West Logging Co., Missoula, 2411  
 Farmers Creamery, Inc., Livingston, 2021, 2024, 2026  
 Farmers Grain Exchange, Havre, 2042  
 Farmers Union G.T.A. Line Elev., Forsyth, 2042  
 Milton T. Felstel Co., Missoula, 2411  
 Ray Fetscher Logging, Missoula, 2411  
 Ted Finlay, Missoula, 2411  
 H. B. Fisher Body Shop, Manhattan, 3713

Fisher Metal Products, Fort Benton, 3444  
 Fisher's Woodwork Shop, Missoula, 2511  
 Five Mile Sawmill, Butte, 2421  
 F K & L Lumber Co., Inc., Martin City, 2421  
 Jack Flansburg, Arlee, 2411  
 Flansburg Ranch Co., Clinton, 2411  
 Flathead Broom & Mop, Bigfork, 3981  
 Flathead Coca-Cola Bottling Co., Kalispell, 2086  
 Flint Creek Lumber Co., Hall, 2421  
 Foley's Millwork Company, Helena, 2431  
 Fordik Post Co., Bigfork, 2491  
 Foremost Dairies, Inc., Stevensville, 2022  
 Forest Products Co., Inc., Kalispell, 2421  
 Forests West, Missoula, 2411  
 Formicove Manufacturing & Distributing Co., Great Falls, 243  
 Forsyth Independent, Forsyth, 2711, 2751  
 Forsyth Lumber Company, Forsyth, 3273  
 The Fort, Big Timber, 3911  
 Fort Benton Locker & Meats, Fort Benton, 2011, 2036  
 Fossum Ready-Mix, Glasgow, 3273, 3295  
 Foster Apiarist, Inc., Lewistown, 2099, 2842  
 Walter M. Fouty Logging, Missoula, 2411  
 Frenchy's Sand & Gravel, Cut Bank, 3295  
 Froid Weekly, Froid, 2711, 2751  
 Fullerton's Plumbing & Heating Shop, Hamilton, 3444  
 Furgason Feed Mill, Inc., Harlowton, 2042

## G

George R. Gabbard, Belgrade, 2411  
 Gallatin County Tribune, Bozeman, 2711, 2751  
 Gallatin Monumental Co., Bozeman, 3281  
 The Gallatin Publishing Co., Bozeman, 2711, 2751  
 Gamer's Bakery, Anaconda, 2051  
 Gamer's Bakery, Butte, 2051  
 Gamer's Bakery, Helena, 2051  
 Gamer's Bakery, Great Falls, 2051  
 Frank Gamma Sawmill, Kila, 2421  
 Garden City Granite Co., Missoula, 3281, 3911  
 Eva Gates Homemade Preserves, Bigfork, 2033  
 The Gazette Printing Co., Billings, 2711, 2751  
 Clifford Gehring, Lincoln, 2411  
 General Mills, Inc., Great Falls, 2041, 2042  
 General Sheet Metal, Kalispell, 3444  
 General Signs, Inc., Billings, 3993  
 Henry Geror, Columbia Falls, 2421  
 Roy Geller, Big Timber, 3199  
 Wallace M. Ghoslin, Livingston, 2411  
 G & L Sharp, Missoula, 2411  
 Glacier Concrete & Metal Pipe Co., Kalispell, 3271, 3272, 3444  
 Glacier Mountain Cheese Co., Gallatin Gateway, 2022  
 Glacier Mountain Cheese Co., Whitehall, 2022  
 Glacier Park Boat Builders, Kalispell, 3732  
 The Glacier Reporter, Browning, 2711, 2751  
 Glacier Trail Creamery, Havre, 2021, 2024  
 Glacier Wholesalers, Kalispell, 2036  
 Glasgow Bakery, Glasgow, 2051  
 Glasgow Publishing Co., Glasgow, 2711, 2751  
 Glasgow Ready-Mix Concrete, Glasgow, 3273, 3295  
 Gold Top Heating, Butte, 3433  
 Golden Krust Bakery, Bozeman, 2051  
 Golden Montana Honey Co., Belgrade, 2099  
 The Goodie Shop, Helena, 2051  
 Goodies Spud Chip Co., Billings, 2099  
 Goosey-Gander Toys, Big Timber, 3941  
 D. Bryce Goulding, Bozeman, 2421  
 G & R Longing, Victor, 2411  
 Granite Timber Treating Plant, Philipsburg, 2491  
 Gray Logging Co., Seeley Lake, 2411  
 Gray Lumber Co., Seeley Lake, 2421  
 Gray Milling Co., Seeley Lake, 2421  
 Gray Wood Products, Seeley Lake, 2429  
 Graybeal Heating & Air Conditioning, Missoula, 3444  
 Great Falls Breweries, Great Falls, 2082  
 Great Falls Coca-Cola Bottling Co., Great Falls, 2086  
 Great Falls Engraving Co., Great Falls, 2793  
 Great Falls Forest Products, Inc., Great Falls, 2421  
 Great Falls Iron Works, Great Falls, 3441, 3443  
 Great Falls Meat Company, Great Falls, 2011  
 Great Falls Ready-Mix, Great Falls, 3273



Great Falls Tent & Awning, Great Falls, 2394  
 Great Northern Tool & Supply Co., Billings, 3591  
 The Great Western Sugar Co., Billings, 2063  
 Greco Bakery, Browning, 2051  
 Green's Processing Plant, Townsend, 2011  
 Greene's Sheet Metal, Great Falls, 3444  
 Tom Greenfield, Inc., Butte, 2751  
 Greenleaf Agate Shop, Billings, 3911  
 M. E. Greer, Fortine, 2421  
 Keith & Larry Grice, Somers, 3931  
 Grogan Robinson Lumber Company, Great Falls, 2433  
 James E. Groves, Superior, 2411  
 Grubb Sand & Gravel, Conrad, 3295  
 GTA Elevator, Fairfield, 2042  
 GTA Fertilizer Plant, Fairfield, 2871  
 Guild Arts & Crafts, Inc., Ashland, 3079  
 Gustafson & Danielson, Olney, 2411  
 Gustafson & Danielson Logging, Pablo, 2411  
 Gysler Manufacturing Co., Fort Benton, 3522

## H

H & N Sheet Metal Fabricators Co., Inc., Deer Lodge, 3444  
 Haldahl Sheet Metal Works, Havre, 3444  
 Hagens Reproductions & Lithographs, Billings, 2752, 3953  
 Dave Hahn Sawmill, Helena, 2421  
 Raymond Hakert, Billings, 3842  
 J. E. Hall, Superior, 2411  
 Hall-Dix Signs, Bozeman, 3993  
 Hall Machine Co., Inc., Billings, 3591  
 Ham Sign Company, West Yellowstone, 3993  
 L & A Hamilton Lumber Co., Missoula, 2421  
 Don Hammer, Lincoln, 2411  
 Handley's Bakery, Hamilton, 2051  
 Clifford Hanley, Whitefish, 2411  
 Hansen Carbonic Service, Billings, 2813  
 Hansen Sheet Metal & Refrigeration Shop, Havre, 3444  
 Hansen's All Star Dairy, Great Falls, 2026  
 Hansen's Ice Cream, Missoula, 2024  
 Hardin Bakery, Hardin, 2051  
 Hardin Market, Hardin, 2011, 2013  
 Hardin Tribune Herald, Hardin, 2711, 2751  
 Jay Hargrove, Gallatin Gateway, 2411  
 Harkins Bottling Company, Butte, 2086  
 The Harlem News, Harlem, 2711, 2751  
 Harlo Creamery & Jersey Dairy, Harlowton, 2026  
 Harlowton Bakery, Harlowton, 2051  
 Harlowton Times & Ryegate Clarion, Harlowton, 2711, 2751  
 Harmon Body Works, Billings, 3591, 3713  
 Harriman Trout Co., Inc., St. Ignatius, 2036  
 Harrington Bottling Company, Butte, 2086  
 Harris Mattress Service, Missoula, 2515  
 Emil Hausauer Logging, Missoula, 2411  
 Haven's Hair Trout Flies, Missoula, 3949  
 Havre Concrete Block Co., Havre, 3271, 3272  
 Havre Daily News, Havre, 2711, 2751, 2793  
 Havre Ready Mix Concrete Co., Havre, 3273  
 Havre Sign Service, Havre, 3993  
 Gera'd W. Hays, Neihart, 2411  
 Hedrick's Sheet Metal, Great Falls, 3444  
 Helean Logging Co., Alberton, 2411  
 Helena Bottling Co., Helena, 2086  
 Helena Coca-Cola Bottling Co., Helena, 2086  
 Helena Sheet Metal Works, Helena, 3444  
 Helena Sign & Display Co., Helena, 3993  
 Helena Stamp Works, Helena, 3953  
 Helena Venetian Blind & Shade Co., Helena, 2591  
 Jack Helmann, Hardin, 2015  
 Henison Pole Plant, Townsend, 2491  
 Henke Pop Corn Co., Missoula, 2099  
 Herald News, Wolf Point, 2711, 2751  
 E. J. Herzog, Columbia Falls, 2411  
 John Herzog, Columbia Falls, 2411  
 Keith A. Hibbard, Missoula, 2411  
 Hickory Kitchen, Great Falls, 2013  
 Don Hilger, Wolf Creek, 2421  
 Hi-Line Publishing Co., Havre, 2711, 2751  
 Hill County Printing Co., Havre, 2751, 2793  
 Hinsdale Tribune, Hinsdale, 2711, 2751  
 Hitz Construction Co., Billings, 3273

Kenneth Hoeffner, Lincoln, 2411  
 John J. Hogan, Missoula, 2411  
 Holiday Ranch, Inc., Columbia Falls, 2899  
 Holly Sugar Corp., Hardin, 2063  
 Home Bakery, Anaconda, 2051  
 Home Service & Upholstery Co., Missoula, 2512  
 Honeyland Apiaries, Wolf Point, 2099, 2842  
 Merlyn J. Horen, Bozeman, 2411  
 House Ready-Mix Co., Browning, 3273, 3295  
 W. D. Howells, Bozeman, 2511  
 H. R. Oxygen Supply, Inc., Billings, 2813  
 Hudson's Upholstery & Carpet, Helena, 2391  
 Humble Oil & Refining Co., Billings, 2911, 2952, 2992  
 Hungry Horse News, Columbia Falls, 2711, 2751  
 Hungry Horse Sand & Gravel, Inc., Hungry Horse, 3295  
 Huson Logging Co., Inc., Missoula, 2411  
 Lester Hutton, Kalispell, 2421  
 Hydro Point Engineering, Hamilton, 3441, 3443

## I

Idaho Pole Company, Bozeman, 2491  
 Ideal Bakery, Billings, 2051  
 Ideal Bakery, Livingston, 2051  
 Ideal Cement Co., Trident, 3241  
 Independent Observer, Conrad, 2711, 2751  
 Industrial Air Products, Missoula, 2813  
 Industrial Machine Company, Great Falls, 3591  
 Industrial Machinery Co., Missoula, 3591  
 Industrial Plastics, Inc., Great Falls, 3079  
 Industrial Steel, Inc., Great Falls, 3441, 3443  
 Inland Laker Boats, Kalispell, 3732  
 The Inter Lake Publishing Co., Kalispell, 2711, 2751  
 Intermountain Lumber Co., Darby, 2421  
 Intermountain Lumber Co., Missoula, 2421  
 Harold Edward Irwin, Darby, 2411  
 Irwin Post & Pole Company, St. Regis, 2491  
 Iverson & Son, Whitefish, 2411

## J

Jack's Fire Equipment Co., Helena, 3713  
 Jack's Welding & Repair Shop, Three Forks, 3591  
 Jackson Garage, Jackson, 3522  
 Jackson Machine Shop, Kalispell, 3591  
 Jacob's Furniture Co., Hamilton, 2512  
 Hans Jacobsen, Hamilton, 2411  
 James Lumber Co., Polson, 2421  
 Jay & Sons Sawmill, Twin Bridges, 2421  
 Jefferson Valley News, Whitehall, 2711, 2751  
 Jenkins Venetian Blind Co., Billings, 2591  
 Jersey Creamery, Inc., Hardin, 2021, 2024, 2026  
 W. E. Jewett, Toston, 2421  
 J-H Meat Company, Shelby, 2011  
 Jiffy Bar B-Q Rib Co., East Helena, 2099  
 Joe's Cabinetry & Woodcraft, Helena, 2511, 2512  
 Joe's Machine Works, Miles City, 3591  
 Clarence J. Johnson, Kalispell, 2411  
 Edwin Johnson Plumbing & Heating, Great Falls, 3444  
 Elwin Johnson, Kalispell, 2411  
 Kenneth W. Johnson, Missoula, 2411  
 Max Johnson, Superior, 2411  
 Johnson Plumbing & Sheet Metal Works, Glasgow, 3444  
 Jones Lumber Co., Livingston, 2421  
 Jordan Tribune, Jordan, 2711  
 Ray Joranson, Missoula, 2511  
 Judith Basin Press, Stanford, 2711, 2751

## K

W. P. Kackelmier, Bozeman, 2411  
 Kaiser Cement Gypsum Corp., Montana City, 3241  
 Kalispell Bottling Co., Kalispell, 2086  
 Kalispell Cabinet Works, Kalispell, 2433, 3441  
 Kalispell News, Kalispell, 2711, 2751  
 Kalispell Pole & Timber Co., Kalispell, 2491  
 Kalispell Sheet Metal Works, Kalispell, 3444  
 Kalispell Stone & Marble, Kalispell, 3281  
 Kalispell Stone & Marble, Inc., Anaconda, 2421  
 Joe F. Kanduch & Sons, Inc., Kalispell, 2411  
 James A. Kauffman, Kalispell, Billings, 3522  
 K. C. Machine & Manufacturing Co., Butte, 3911, 3961  
 Keenan Manufacturing Jewelers, Butte, 3911, 3961

Kehoe's Agate Shop, Bigfork, 3961  
 Henry A. Keller, Kalispell, 2411  
 Kelso Apiaries, Manhattan, 2099  
 Monty Kennedy, Kalispell, 2426  
 Kenny Bros. Lumber Co., Wolf Creek, 2421  
 Kenyon-Noble Lumber Co., Bozeman, 3273  
 Kind Sawmill, Highwood, 2421  
 King Concrete, Missoula, 3273, 3295  
 Jack N. Kinney Signs, Helena, 3993  
 Kinnibugh Brothers, Marion, 2421  
 Bruce D. Kiser, Kita, 2421  
 John C. Klapwyk, Missoula, 2421  
 A. T. Klemens & Son, Great Falls, 3444  
 K. P. Logging Company, St. Ignatius, 2411  
 Krapf Machine & Supply, Cut Bank, 3591  
 Krause Lumber Co., Creston, 2421  
 R. D. Kreis, Huson, 2411  
 Krezelaks, Inc., Havre, 2011  
 K-T Liquid Feed Co., Butte, 2042  
 Kynett's Mattress Factory, Great Falls, 2515

## L

Elsie Laden, Dillon, 2015  
 LaFond Construction Co., Malta, 3273, 3295  
 Lake City Home Bakery, Polson, 2051  
 Langs Cemetery Service, Billings, 3272  
 L. Peter Larson Co., Columbia Falls, 2421  
 Hans Lauesen, Wisdom, 2421  
 The Leader, Great Falls, 2711, 2751  
 Lee Craft Boats, Somers, 3732  
 Leedham & Laird Printing Co., Billings, 2751  
 Lee's Machine Shop, Miles City, 3591  
 Legowik Grafic Arts Studios, Great Falls, 3993  
 Lehrkinds Ice Cream, Bozeman, 2024  
 Lenyard Ready-Mix, Ashland, 3273, 3295  
 Lesman Iron Works, Billings, 3441  
 The Letter Shop, Butte, 2751, 2752  
 Lewistown Brick & Tile, Lewistown, 3251  
 Lewistown Creamery Co., Lewistown, 2021, 2024, 2026  
 Lewistown Machine & Welding Works, Lewistown, 3441, 3443, 3591  
 Lewistown Ready-Mix, Lewistown, 3273, 3295  
 Liberty Corner Confectionery, Great Falls, 2071  
 Liberty County Times, Chester, 2711, 2751, 2793  
 Carl G. Liebig, Marion, 2411  
 Linde Company, Billings, 2813  
 Linde Company, Butte, 2813  
 Lindsey Sash & Hardware Co., Billings, 2431  
 Linton Corporation, Sidney, 3079, 3272  
 Liquid Assets, Inc., Great Falls, 2086  
 Little Creek Logging Co., West Glacier, 2411  
 Livergood Meat Market & Storage Lockers, Stevensville, 2011  
 The Livingston Enterprise, Livingston, 2711, 2751  
 Livingston Marble & Granite Works, Livingston, 3281  
 Lockwood Lockers, Ronan, 2011  
 Lolly Rings, Butte, 2024, 2071  
 Jack Long Logging Co., Missoula, 2411  
 Long Loggers, Inc., Hamilton, 2411  
 The Lovell Clay Products Company, Billings, 3251  
 L & S Lumber Co., Polebridge, 2421  
 Lucky Logger Co., Missoula, 2411  
 Lumber Enterprises, Inc., Gallatin Gateway, 2433

## M

Madisonian, Virginia City, 2711, 2751  
 Frank Magara, Helena, 2421  
 Magnuson Tin Shop, Miles City, 3444  
 Malta Bakery, Malta, 2051  
 Manhattan Creamery, Manhattan, 2021, 2026  
 Marias Packing Company, Shelby, 2011  
 Marketing Manufacturing Co., Billings, 3443  
 Mark's Donuts, Butte, 2051  
 Marsh Apiaries, Corvallis, 2099, 2842  
 Alex Martin, Hardin, 2099  
 Martin City Lumber Co., Coram, 2421  
 Earl Martin, (Mrs), Stevensville, 3961  
 Robert L. Martin, Swan Lake, 2411  
 Mathisen Sheet Metal & Plumbing, Whitehall, 3444  
 Mattson Lumber Company, Townsend, 2421

Maxie Bakery, Cut Bank, 2051  
 John W. Maydole, Hamilton, 2411  
 Maynard Stationery Company, Billings, 2751  
 McCoy's Picnic Horseradish, Billings, 2099  
 J. P. McDaniel, Ennis, 2099, 2842  
 Jess McDonald, Frenchtown, 2411  
 McDonald Ready-Mix Concrete, Lewistown, 3273, 3295, 3299  
 McDonald's, Inc., Missoula, 2411  
 McElroy & Wilken Ready Mix, Kalispell, 3273, 3295  
 McGrew Machine Fabricating, Butte, 3591  
 McHenry Sawmill, Townsend, 2421  
 Esther McIntyre, Marion, 2421  
 McKee Printing Co., Butte, 2751, 2752  
 Robert L. McKenzie, Big Timber, 3273, 3295  
 Robert McKinley, Missoula, 2411  
 McLees Sheet Metal, Inc., Bozeman, 3444  
 Ellis McNinch, Bozeman, 2411  
 Meadow Valley Creamery, Malta, 2021, 2024, 2026  
 Medo-Land Dairies, Missoula, 2024, 2026, 2086  
 Meridian Dairy, Kalispell, 2026  
 Byron E. Metcalf Logging, Kalispell, 2411  
 Meyer Ditcher Company, Fairfield, 3522  
 Mark Meyers, Kalispell, 2421  
 Mark Meyers Sawmill, Lewistown, 2421  
 Ernest F. Micho Whitefish, 2421  
 Mickey's Packing Plant, Great Falls, 2011  
 Midland Empire Packing Co., Inc., Billings, 2011  
 Midland Feed Company, Billings, 2042  
 Midlands Material Company, Billings, 3273, 3295  
 Midwest Cabinet Company, Billings, 2511, 2541  
 Midwest Welding & Machine Shop, Bozeman, 3591  
 Miles City Packing Co., Miles City, 2011, 2094  
 Miles City Ready-Mix, Miles City, 3273  
 Miles City Rendering Co., Miles City, 2094  
 Milk River Creamery, Chinook, 2021, 2024  
 Milk River Elevator Co., Chinook, 2042  
 Mill Supply Co., Missoula, 3553  
 Terry Mills, Clyde Park, 2421  
 Millwork Supply, Inc., Billings, 2431  
 Mineral Publishing Co., Superior, 2711, 2751  
 Mission Homes, Inc., Missoula, 2433  
 Missoula Creamery & Cold Storage Co., Missoula, 2011, 2097  
 Missoula Pres-to-Loos Co., Missoula, 2499  
 Missoula Rendering Co., Missoula, 2094  
 Missoula Sawmills, Inc., Missoula, 2421  
 Missoula Welding & Machine Works, Missoula, 3591  
 Missoula White Pine Sash Co., Missoula, 2431  
 Missoulian-Sentinel, Missoula, 2711, 2751  
 Model Bakery, Missoula, 2051  
 Modern Furniture Factory, Missoula, 2511  
 Modern Machine Works, Havre, 3591  
 Modern Saddle Shop, Lewistown, 3199  
 Modern Signs, Malta, 3993  
 Modern Welding, Helena, 3443, 3449  
 Modern Woodcraft, Helena, 2431, 2511  
 Moderne Cabinet Shop, Great Falls, 2511, 2541  
 Mollies Parties, Butte, 2051  
 Monarch Lumber Company, Chester, 3273  
 Monitor Offset Printers, Helena, 2752  
 Austin Monk, Marion, 2421  
 Montana Animal Products Co., Helena, 2042  
 Montana Broom & Brush Co., Butte, 3981  
 Montana Building & Cabinet, Butte, 2511  
 Montana Casket Company, Butte, 3988  
 Montana Cereal Co., Billings, 2043  
 Montana Concrete Pipe, Butte, 3272  
 Montana Concrete Pipe Co., Missoula, 3271, 3272  
 Montana Engraving, Kalispell, 2793  
 Montana Enterprises, Big Sandy, 3443  
 Montana Evergreen, Inc., Kalispell, 3999  
 Montana Farmer-Stockman, Great Falls, 2711  
 Montana Flour Mills, Missoula, 2041, 2042  
 Montana Flour Mills Co., Great Falls, 2041  
 Montana Gems, Wolf Point, 3961  
 Montana Granite Industries, Great Falls, 3281, 3272  
 Montana House West Glacier, 2033, 3984, 3999  
 Montana Lightweight Aggregate Company, Billings, 3271, 3272, 3295  
 Montana Meat Company, Inc., Helena, 2011

Montana Mineral Feed Co., Choteau, 2042  
 Montana Oil Journal, Great Falls, 2721  
 Montana Ornamental Iron Works, Butte, 3449  
 Montana Phosphate Products Co., Hall, 2819  
 Montana Pole & Treating Plant, Butte, 2491  
 Montana Pottery Company, Cardwell, 3269  
 Montana Record Publishing Co., Helena, 2711, 2751  
 Montana Rendering Company, Great Falls, 2094, 2042  
 Montana Salvage, Inc., Somers, 2871  
 Montana Saw Service, Kalispell, 2421  
 Montana Standard & Butte Daily Post, Butte, 2711, 2751  
 Montana Stone Corp., Great Falls, 3281  
 Montana Stone, Inc., Helena, 3281  
 Montana Sulphur & Chemical Company, Billings, 2819  
 Montana Vegetable Oil & Feed Co., Great Falls, 2093  
 Montana Welding & Radiator, Billings, 3449  
 Jerry Montelius Logging, Clinton, 2411  
 Montronics, Inc., Bozeman, 3662  
 Moore Dairy, Culbertson, 2021, 2024, 2026  
 Eli W. Morigeau, Polson, 2411  
 Dan Morrison & Sons, Lewistown, 3522  
 Moulett Logging, Livingston, 2411  
 Mount Lolo Lumber Co., Missoula, 2421  
 Mountain Manufacturing Co., Inc., Kalispell, 3531  
 Mountain Press, Missoula, 2572  
 Mountain View Fly Tying, Columbia Falls, 3949  
 The Mountaineer, Big Sandy, 2711, 2751  
 M-S Logging Co., St. Regis, 2411  
 M & S Ready-Mix, Missoula, 3273, 3295  
 Murray Manufacturing Co. of Billings, Billings, 3531

## N

Nailey's Montana Company, Billings, 2099  
 National Burial Vault, Ramsay, 3272  
 National Cylinder Gas, Billings, 2813  
 Needham Packing Company of Montana, Great Falls, 2011  
 Neifert & White Ready-Mix, Townsend, 3273  
 Nelson Sawmill, Helena, 2421  
 Neon Sales & Service, Inc., Great Falls, 3993  
 Nettleton's Sawmill, Helena, 2421  
 New Butte Butchering Co., Butte, 2011  
 William W. Nickler, Missoula, 2411  
 North Montana, Whitefish, 2421  
 North Side Auto, Havre, 3591  
 North Star Refining Co., Shelby, 2911  
 Northern Bloom Honey Co., Glasgow, 2099, 2842  
 Northside Lumber & Coal Yard, Billings, 3271  
 Northwest Canvas Products Co., Great Falls, 2394  
 Northwest Fixture Company, Billings, 2542  
 Northwest Plating Company, Billings, 3471  
 Northwestern Roofing & Sheet Metal Workers, Great Falls, 3444  
 Nye's Dairy, Inc., Billings, 2024, 2026

## O

Occident Elevator Co., Glasgow, 2042  
 O & K Feeds Service, Conrad, 2042  
 Barry O'Leary, Inc., Billings, 3273, 3295  
 Olsen Concrete Products, Polson, 3271  
 Robert E. Olsen Logging, Gallatin Gateway, 2411  
 Olson Machine Works, Kalispell, 3591  
 Olson's Machine & Welding, Billings, 3591  
 O'Neil Lumber Company, Kalispell, 2431  
 O'Neil Printers & Office Suppliers, Kalispell, 2751, 2752  
 O'Neill Sheet Metal Works, Great Falls, 3444  
 Dyer Lumber Co., Manhattan, 2421

## P

Pacific Vegetable Oil Corp., Culbertson, 2042, 2096  
 Paganni Concrete Products, Billings, 3271  
 H. L. Palmer Logging, Missoula, 2411  
 Panel Structures, Missoula, 2433  
 Pappin Construction Co., Great Falls, 2421  
 Floyd Pappin & Son, Great Falls, 3273, 3295  
 Paradise Rainbows, Livingston, 2031, 2036  
 Parco Neon Company, Livingston, 3993  
 Otis E. Park, Arlee, 2411  
 Park County News, Inc., Livingston, 2711, 2751  
 Park Lumber Co., Livingston, 2421  
 Park Wood Products, Inc., Livingston, 2411

Parks Brothers, Ekalaka, 3295  
 Parrot Confectionery, Helena, 2071  
 Peat Pack, Inc., Hamilton, 2879  
 Peavey Company, Billings, 2041  
 Peavy Company, Sidney, 2872  
 Peavy Elevator Company, Miles City, 2042  
 Penguin Ice Cream Shop, Miles City, 2024  
 Pepco-Chemical, Billings, 2952  
 Pepsi-Cola Bottling Co., Billings, 2086  
 Pepsi-Cola Bottling Co., Missoula, 2086  
 Pepsi-Cola Bottling Co. of Montana, Great Falls, 2086  
 Peterson Print Shop, Billings, 2751  
 Phil-Co Feed & Seed, Malta, 2042  
 The Philipsburg Mail, Philipsburg, 2711, 2751  
 Phillips County News, Malta, 2711, 2751  
 Phillips Dairies, Inc., Helena, 2026  
 Phillips Petroleum Co., Great Falls, 2911  
 Phillips Sheet Metal Works, Anaconda, 3444  
 Pierce Packing Company, Billings, 2011  
 Pike Printing, Great Falls, 2751, 2752  
 Pile Apiaries, Corvallis, 2099, 2842  
 Art Pine Lumber Co., Missoula, 2433  
 Pioneer Bake "N" Serve, Missoula, 2037  
 Pioneer Concrete & Fuel Co., Butte, 3273  
 Pioneer Ready Mix, Inc., Bozeman, 3273, 3295  
 Ployhar Logging, Seeley Lake, 2411  
 Plum Creek Lumber, Pablo, 2421  
 Plum Creek Lumber Co., Columbia Falls, 2432  
 Polly's Upholstering, Harlowton, 2391  
 Polson Machine Co., Polson, 3591  
 The Poplar Standard, Poplar, 2711, 2751  
 Porter Food Products, Missoula, 2099  
 Pot-o-Gold Noodles, Helena, 2098  
 Post's Heating & Sheet Metal, Forsyth, 3444  
 Pott Trout Fly, Missoula, 3949  
 Powder River County Examiner, Broadus, 2711, 2751  
 Propp & Baumgart, Billings, 2011  
 Provence Brothers, Marion, 2411  
 Ralph Provence, Marion, 2411  
 P & W Lumber, Kalispell, 2421  
 Pyramid Mountain Lumber, Inc., Seeley Lake, 2421

## Q

Quality Control Lab., Billings, 2899  
 Quality Homes, Helena, 2433  
 Quality Millwork & Manufacturing Co., Billings, 2431  
 Quick Freeze Packing Co., Livingston, 2011  
 Quick Service Neon Co., Hamilton, 3993

## R

Rainbow Signs, Inc., Bozeman, 3993  
 Rasmussen's Slaughter House, Hamilton, 2011  
 Ravalli County Creamery, Hamilton, 2021, 2022, 2024  
 Ravalli Republican, Hamilton, 2711, 2751  
 Ravalli Seed & Grain Co., Hamilton, 2042  
 Ready-Mix Concrete Co., Polson, 3273, 3295  
 D. A. Reber Logging, Missoula, 2411  
 Reber Plumbing & Heating, Helena, 3444  
 Reid's Metallizing Shop, Kalispell, 3471  
 Bruce Reimer, Whitefish, 2411  
 Reinhard Roofing & Sheet Metal, Missoula, 3444  
 Reliable Tent & Awning Co., Billings, 2394  
 Renfrow Cabinet Works, Columbia Falls, 2511  
 Reporter Printing & Supply, Billings, 2751  
 Reymer Machine Company, Billings, 3591  
 Richards Sheet Metal, Kalispell, 3444  
 Richem & Sons, Choteau, 3273  
 Thomas Ricks, Anaconda, 2411  
 Reichold Chemicals, Inc., Kalispell, 2821, 2891  
 The Rifle Shop, Philipsburg, 1951  
 Rimby's Heating & Sheet Metal, Lewistown, 3444  
 Rimmerid Logging, Victor, 2411  
 River Press Publishing Co., Fort Benton, 2711, 2751  
 Riverside Machine Works, Great Falls, 3591  
 Riverside Post Company, Deborgia, 2491  
 Roberts Livestock & Packing, Dillon, 2011  
 Roberts Logging, Stevensville, 2411  
 Robert's Roost Knives, St. Ignatius, 3421, 3423  
 Robinson Insulation Co., Great Falls, 3296



Rock Hand & Co., Helena, 3461  
 Rock Springs Dairy, Butte, 2026  
 Rockford's Rock & Jewelry Shop, Victor, 3911  
 Rocky Mountain Dairy, Butte, 2026  
 Rocky Mountain Furniture Co., Inc., Billings, 2511  
 Rocky Mountain Homes, Butte, 2433  
 Rocky Mountain Homes, Whitehall, 2433  
 Rocky Mountain Lumber Co., Columbia Falls, 2421  
 Rocky Mountain Packing Co., Inc., Havre, 2011  
 Rocky Mountain Quick Mix Co., Conrad, 3273  
 Rocky Mountain Timber Co., Inc., Columbia Falls, 2421  
 Rolie's Machine Works, Kalispell, 3599  
 Rolling Pin Bake Shop, Billings, 2051  
 Ronan Pioneer, Ronan, 2711, 2751  
 Roscoe Steel & Culvert Company, Billings, 3444  
 Rose's Agate Shop, Forsyth, 3961  
 Rossignol Logging & Ranch Co., Lolo, 2411  
 David H. Roth, Whitefish, 2411  
 Rothe's Dairy, Wolf Point, 2021, 2324, 2026  
 Roundup Bottling Company, Roundup, 2086  
 Roundup Record Tribune, Roundup, 2711, 2751  
 Royal Bakery, Butte, 2051  
 Royal Logging Co., Columbia Falls, 2411  
 William L. Royer, Kalispell, 2421  
 Ruana Knife Works, Bonner, 3199, 3421, 3423  
 Rummel Monumental Works, Helena, 3281  
 Rush Pie Shop, Butte, 2051  
 Russell Sheet Metal Co., Billings, 3444, 3791  
 Rustic Homes, Missoula, 2433  
 Ryniker Steel Products Co., Billings, 3433

## S

Saco Alfalfa Products, Inc., Saco, 2042  
 Saco Independent, Saco, 2711, 2751  
 Safeway Bakery, Helena, 2051  
 Salvage Logging Service, 2411  
 Sanders Sheet Metal Co., Shelby, 3444  
 Sandon Logging Co., Lincoln, 2411  
 Sands Construction, Fairfield, 3272, 3273  
 Sanitary Dairy, Miles City, 2021, 2026  
 Sargent & McKinney, Darby, 2411  
 Louie B. Sasse, Columbia Falls, 2411  
 Saunders Lumber Co., Hardin, 2421  
 Schafer's Sheet Metal & Roofing, Livingston, 3444  
 Schaffer's Heating & Sheet Metal, Ennis, 3444  
 Schmid & Hardinger, Kalispell, 2421  
 Henry Schnackenberg, Marion, 2421  
 Schramm Packing Company, Missoula, 2011  
 Scruggs' Slaughter House, Stevensville, 2011  
 Sealey's Sawmill, Roundup, 2411, 2421  
 The Searchlight, Culbertson, 2711, 2751  
 The Seat Cover Center, Inc., Billings, 2399  
 Seeley Lake Milling Co., Seeley Lake, 2421  
 Seitz & Bowers Processing, Roundup, 2011  
 Cliff Sell, Ennis, 2099, 2842  
 Service Boat Co., Lakeside, 3732  
 Seven-Up Bottling Co., Butte, 2086  
 Seven-Up Bottling Co., Great Falls, 2086  
 Seven-Up Bottling Co. of Billings, Billings, 2086  
 Seven-Up Kist Bottling Co., Shelby, 2086  
 Shadoans Sawmill, Bozeman, 2421  
 Shaffers Bakery, Dillon, 2051  
 Hall Sharon, Kalispell, 1951  
 Sheep Shearers Union, Butte, 3522  
 Shelby Bakery, Shelby, 2051  
 Shelby Promoter, Shelby, 2711, 2751  
 Shelby Times, Shelby, 2711, 2751  
 Sheperds Sweets, Butte, 2071  
 Sheridan Bakery, Sheridan, 2051  
 Roy A. Shook, Darby, 2411  
 Leo Sias, Ronan, 2411  
 The Sidney Herald, Sidney, 2711, 2751  
 Sidney Locker & Creamery Co., Sidney, 2021, 2024, 2026  
 Sidney Millwork Co., Sidney, 2431  
 Sidney Red-E-Mix Co., Sidney, 3273, 3295  
 Sidney Rendering Company, Sidney, 2094  
 Siegfried Lumber Co., Lame Deer, 2421  
 Sierra Talc & Chemical Co., Three Forks, 3295  
 Sigman Meat Co., Inc., Butte, 2011

Simmons Cabinet Shop, Hamilton, 2511  
 Simmons Wood Products, Hamilton, 2426  
 R. E. Simpson, Lodge Grass, 2421  
 H. E. Simpson Lumber Co., Kalispell, 2421  
 Skaw Logging, Missoula, 2411  
 Skenders Ceramics, Butte, 3269  
 Skyline Dairy, Kalispell, 2021, 2024, 2026  
 John Slack, Kalispell, 2411  
 John C. Slack, Kalispell, 2411  
 Edward J. Smart Logging, Belgrade, 2411  
 E. C. Smith, Superior, 2421  
 Leo Smith Construction Co., Anaconda, 2431  
 Smith Sawmill, Townsend, 2421  
 Smith's Upholstery, Missoula, 2512  
 S & N Construction Co., Anaconda, 3295  
 Snedigar Welding & Blacksmith Shop, Stevensville, 3591  
 John Snider Logging, Hamilton, 2411  
 Snowflake Bakery, Sidney, 2051  
 Snowline Tree Co., Kalispell, 3999  
 Snowy Mountain Campers, Lewistown, 3732, 3791  
 Snowy Mountain Meat Co., Lewistown, 2011  
 Snyder Venetian Blind Co., Billings, 2591  
 Sorenson Brothers Sawmill, Drummond, 2421  
 South Side Dairy, Butte, 2026  
 Southern Universities Press, Missoula, 2721  
 John H. Spaulding, Missoula, 2411  
 Sperry's Canvas Shop, Helena, 2394  
 Spruce Park Lumber Co., Coram, 2421  
 The Spudnut Shop, Great Falls, 2051  
 Stahler Picket Co., Helena, 2499  
 Stan Craft Boat Co., Lakeside, 3732  
 F. B. Standley, Missoula, 2411  
 John W. Standley, (Mrs.), Helena, 3269  
 Star Printing Co., Miles City, 2711, 2751, 2752, 2793  
 Star Publishing Co., Inc., Townsend, 2711, 2751  
 Stark Mountain Logging Co., Huson, 2411  
 The State Publishing Co., Helena, 2751, 2752  
 Glenn A. Stevens, Whitefish, 2411  
 Stevensville Feed & Fuel Co., Stevensville, 2042  
 Stewart's Saddlery, Missoula, 3199  
 Stillwater Logging, Inc., Missoula, 2411  
 Stillwater Timber Products, Whitefish, 2421  
 Leo Stock, Olney, 2411  
 F. H. Stoltze Land & Lumber, Columbia Falls, 2421  
 Storer & Flightner, Inc., Darby, 2421  
 Norman Stringfellow, Columbia Falls, 2411  
 Stud Timber Co., Inc., Columbia Falls, 2411  
 Suburban Lumber Company, Lincoln, 2411  
 Suorue Bottling Co., Anaconda, 2086  
 Sullivan Sheet Metal Works, Butte, 3444  
 Sullivan Valve & Engineering Co., Butte, 3433  
 Sunburst Biochemical Co., Conrad, 2046, 2099  
 Sun Kist Dairy, Butte, 2026  
 Sunrise Bakery, Forsyth, 2051  
 Super Save Bakery, Missoula, 2051  
 Superior Building Co., Columbia Falls, 2421  
 Superior Dairy, Choteau, 2021, 2024, 2026  
 Supreme Bakers, Billings, 2052  
 J. G. Svenson, Manufacturing Jeweler, Great Falls, 3911  
 Sverdsten Logging Co., Superior, 2411  
 S & W Sawmill, Darby, 2421  
 Sweet Grass Creamery, Big Timber, 2021, 2024, 2026  
 Sweetheart Bread Company, Billings, 2051  
 Sykes Grocery & Market, Kalispell, 2013

## T

Taber Mill Company, Hamilton, 2421  
 Tarbet Sand & Gravel, Fort Benton, 3273, 3295  
 Taste-T-Bakery, Billings, 2051  
 T. G. Taylor, Contractor, Bozeman, 2411  
 Taylor-Napp Mining Co., Philipsburg, 3295  
 Taylor Sheet Metal & Roofing, Missoula, 3444  
 Televox Inc., Sound Devices Mfg. Co., Billings, 3651, 3662  
 Teslow, Inc., Bozeman, 2042  
 Teslow, Inc., Dillon, 2042  
 Teslow, Inc., Townsend, 2042  
 Tex-Star Petroleum Co., Wolf Point, 2911  
 George J. Thomas, Missoula, 2411  
 M. L. Thomas, Belgrade, 2411

Thomas Printing, Inc., Kalispell, 2751, 2752  
 Thompson Dairy Company, Inc., Billings, 2026  
 John A. Thompson, Lincoln, 2411  
 Thompson Lumber Co., Lincoln, 2421  
 Thorson Manufacturing Co., Corvallis, 3522  
 Three D Lumber Co., Bozeman, 2421  
 Three Forks Herald, Three Forks, 2711, 2751  
 Three Forks Manufacturing Co., Three Forks, 2871  
 Thurber Printing Co., Helena, 2752  
 Tierney Brothers Ready-Mix Concrete, Butte, 3273, 3295  
 Timberweld Manufacturing Co., Columbus, 2433  
 Melvin Timbin, Kalispell, 2411  
 The Times, Inc., Missoula, 2711, 2751  
 Todd's Bake Shop, Kalispell, 2051  
 Toljan Sign Company, Butte, 3993  
 Tolman Meat Processing Plant, Hamilton, 2011  
 Clyde E. Tompkins, Polson, 2411  
 Tom's Home Bakery, Hamilton, 2051  
 Toomey Shoe & Saddle Shop, Lewistown, 3199  
 Touch O' Magic, Whitefish, 2099  
 Miles E. Tower, Superior, 2411  
 Town Talk Bakery, Inc., Butte, 2051  
 Townsend Lumber Co., Inc., Townsend, 2421  
 Townsend Sawmill, Townsend, 2421  
 Treasure State All Star, Butte, 2021, 2026  
 Treasure State Industries, Inc., Great Falls, 3271, 3274  
 Treasure State Manufacturing Co., Missoula, 2431  
 Treasure State Metal Products, Missoula, 3479, 3993  
 Treasure State Publishing, Polson, 2711, 2751  
 Tree Farmers, Inc., Missoula, 2411  
 Tressler-Lowe Ready-Mix Concrete, Helena, 3273, 3295  
 Trevillion-Johnson Memorials Co., Butte, 3281  
 The Tribune, Great Falls, 2711, 2751  
 Tribune Printing Supply, Great Falls, 2751  
 Tri-City Concrete, Inc., Anaconda, 3273, 3295  
 Tri-State Minerals, Inc., Dillon, 3295  
 Truzzolino Food Products, Butte, 2099  
 Trott Printing Co., Billings, 2751  
 Tuck Spring & Steel, Inc., Missoula, 3493, 3591  
 Turner Post Treating Plant, Whitefish, 2491  
 Type-Write Desk Mfg. Co., Inc., Missoula, 2511, 2521

## U

Union Oil Company of California, Cut Bank, 2911  
 United Prestress, Great Falls, 3272  
 United Prestress, Inc., Billings, 3272  
 United States Gypsum Co., Lewistown, 3275  
 United States Plywood Corp., Polson, 2432  
 Upper Snake Valley Dairy, Dillon, 2021, 2024, 2026  
 Urdahl Signs, Bozeman, 3993

## V

Valley Meat Packing Co., Sidney, 2011  
 Valley Plumbing & Heating Co., Hamilton, 3444  
 Valley Sports News, Whitefish, 2711  
 Taylor R. VanBlaricom, Wilsall, 2411  
 Vandervoort Logging, Livingston, 2411  
 Van Evan Co., Missoula, 2432  
 Van Tighen Steel Metal, Great Falls, 3444  
 Veneers, Inc., Kalispell, 2432  
 Victor Chemical Works, Butte, 2819  
 Viel Manufacturing Company, Billings, 3522  
 Vita Rich Dairy, Inc., Havre, 2024, 2026  
 Vollmer & Sons, Inc., Bozeman, 2011

## W

Wade Lumber Co., Clancy, 2421  
 Wade Sawmill, Townsend, 2421  
 Waldorf Hoerner Paper Products Co., Inc., Missoula, 2611, 2631  
 Walford Electric Co., Inc., Missoula, 3993  
 Bruce H. Walker, Somers, 2411  
 Charles E. Walker, Darby, 2411  
 Walker Logging, Philipsburg, 2411  
 Robert Walker Lumber Mill, Stevensville, 2421  
 Torgus E. Wall, Miles City, 2071  
 Bruce M. Ward Agate Shop, Miles City, 3911  
 Ward Manufacturing Co., Inc., Missoula, 3531

Russell C. Warner Whitefish, 2411  
 Will Warner, Columbia Falls, 2411  
 Warren Sales & Service, Inc., Helena, 3586  
 Washum Products Co., Inc., Billings, 2842  
 William E. & Robert D. Watson, Olney, 2421  
 Weaver Logging, Columbia Falls, 2411  
 West Shore Cabinet Shop, Polson, 2511  
 West Yellowstone Lumber Co., West Yellowstone, 2421  
 Western Breeze, Cul. Bank, 2711, 2751  
 Western Iron Works, Inc., Butte, 3441, 3443  
 Western Litho-Print, Inc., Billings, 2752  
 Western Livestock Reporter, Billings, 2711, 2751  
 Western Meat Packers, Inc., Missoula, 2011  
 Western Montana Marble & Granite Co., Missoula, 3281  
 Western Neon, Kalispell, 3993  
 Western News, Hamilton, 2711, 2751  
 Western Plumbing & Heating, Livingston, 3444  
 Western Refrigeration, Butte, 2024, 2097  
 Western Timber Products, Kalispell, 2421  
 Western Woodwork & Supply, Kalispell, 2431, 2511  
 Wheat Center News, Dutton, 2711, 2751  
 Whitefish Block Shop, Whitefish, 3271

Whitehall Sawmill, Whitehall, 2421  
 White's Metal Shop, Culbertson, 3444  
 White's Printers, Polson, 2751  
 Whitmire Custom Fiber Glass, Missoula, 3732  
 Jack J. Whitney, Bigfork, 2431  
 Wibaux Pioneer Gazette, Wibaux, 2711, 2751  
 Wickham & Wickham, Kalispell, 2411  
 John Wight, Inc., Billings, 2911  
 Earl Wilcox, West Yellowstone, 2411  
 Wilcoxson's Ice Cream Co., Billings, 2024, 2071  
 Wilcoxson's, Inc., Livingston, 2024, 2071  
 Curtis Wildey Logging, Conner, 2411  
 Williams Feed, Inc., Dillon, 2042  
 Wilmot Logging, Livingston, 2411  
 Milo E. Wilson, Conner, 2411  
 Wilson Cogeshall Saddlery, Miles City, 3171, 3172, 3199  
 Wilson Machine Shop, Darby, 3591  
 Winchell Central Sheet Metal Works, Inc., Billings, 3444  
 Wind River Honey Company, Sheridan, 2099, 2842  
 C. H. Winkley, Kalispell, 2411  
 Winnett Times, Winnett, 2711, 2751  
 Wolfen's General Repair Shop, Glasgow, 3591

Wolf Point Iron Works, Wolf Point, 3591  
 The Whitefish Pilot, Whitefish, 2711, 2751  
 Wolf Point Saddlery, Wolf Point, 3171, 3172, 3199  
 Burton O. Wollan, Kalispell, 2421  
 Wood Post Co., Whitefish, 2411  
 Donald Woods, Superior, 2411  
 Wood's Powr-Grip Manufacturing Co., Wolf Point, 3423

# Y

Yellowstone Glass Co., Billings, 3231  
 Yellowstone Heating & Cooling, Inc., Billings, 3443  
 Yellowstone Hydraulics & Machine, Inc., Billings, 3537  
 Yellowstone Pine Co., Inc., Belgrade, 2421  
 Yellowstone Quality Check Dairy, Billings, 2024, 2026, 2086  
 Yellowstone Quality Check Dairy, Livingston, 2024, 2026  
 Yettors Bakery, Lewistown, 2051  
 E. R. Young Company, Inc., Billings, 3442  
 Yount's Sawmill, Roundup, 2411, 2421  
 Yuhas Manufacturing Co., Helena, 2511, 2531

# Z

Zip Beverage Company, Missoula, 2086

# Montanans are working together...

## GROSS BASIC INCOME IN MONTANA 1950 - 1963

(Thousands of dollars) **Per Capita**, which is shown in dollars, and **Personal Income**, which is shown in millions of dollars. Percentage figures are of total gross basic income.

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INDUSTRIES!

Year	Cash Receipts From Farming <sup>1</sup>		Value of Mineral Production <sup>2</sup>		Value of Lumber Production <sup>3</sup>		Value Added by Manufacturers <sup>4</sup>		Gross Basic Income	Personal Income <sup>5</sup>	Per Capita <sup>5</sup>
	Dollars	Per Cent	Dollars	Per Cent	Dollars	Per Cent	Dollars	Per Cent	Dollars	Dollars	Dollars
1950	359,865	58.49	103,389	16.80	44,165	7.18	107,837	17.53	615,256	957	1,600
1951	445,693	57.75	126,166	16.35	50,000	6.48	149,776	19.41	771,635	1,050	1,771
1952	406,218	N/A	121,400	N/A	N/A	N/A	138,952	N/A	N/A	1,066	1,786
1953	375,736	N/A	132,184	N/A	N/A	N/A	142,045	N/A	N/A	1,093	1,798
1954	391,823	44.57	125,983	17.56	58,536	8.15	141,234	19.68	717,576	1,071	1,747
1955	372,482	45.36	167,162	20.35	73,858	8.99	207,701	25.29	821,203	1,158	1,862
1956	427,012	43.51	213,781	21.88	81,001	8.29	257,016	26.33	976,810	1,229	1,902
1957	411,363	47.45	191,762	22.12	61,281	7.07	202,479	23.36	866,885	1,280	1,934
1958	450,361	50.22	178,728	19.93	70,703	7.88	196,915	21.96	896,707	1,338	2,015
1959	441,255	48.35	167,328	18.33	86,043	9.43	217,985	23.88	912,611	1,328	1,991
1960	422,986	48.13	179,062	20.17	80,072	9.02	205,629	23.16	887,749	1,363	2,004
1961	379,318	44.35	183,344	21.44	79,942	9.35	212,621	24.86	855,225	1,344	1,923
1962	426,174	45.56	190,657	20.38	89,457	9.56	229,148	24.50	935,436	1,558	2,235
1963	421,181		182,030				245,000			1,553	2,197

Sources: <sup>1</sup> U. S. Department of Agriculture, Agricultural Marketing Service and Economic Research Service.  
<sup>2</sup> U. S. Department of Interior, Bureau of Mines.  
<sup>3</sup> Western Wood Products Association, Portland, Oregon.  
<sup>4</sup> Statistical Abstract of the United States, 1964, and Annual Survey of Manufacturers, 1962.  
<sup>5</sup> Survey of Current Business, August, 1964, U. S. Department of Commerce, Office of Business Economics.



## PART TWO

# Geographical Listing of Manufacturers By County

### Beaverhead County

Population, July, 1963—7,500

#### Dillon

Anderson Sheet Metal Works, 3444  
Earl Barnes, 2099  
Beaverhead Concrete, 3273  
Beaverhead Machine & Welding Shop, 3591  
Beaverhead Printers, 2721  
The Big Dipper, 2024  
Dillon Daily Tribune-Examiner, 2711, 2751  
Dillon Heating & Tin Shop, 3444  
Dillon Rendering Co., 2094  
Durant Sand & Gravel, 3273  
Elsie Laden, 2015  
Roberts Livestock & Packing, 2011  
Shatters Bakery, 2051  
Teslow, Inc., 2042  
Tri-State Minerals, Inc., 3295  
Upper Snake Valley Dairy, 2021, 2024, 2026  
Williams Feed, Inc., 2042

#### Jackson

Jackson Garage, 3522

#### Wisdom

Hans Lauesen, 2421

### Big Horn County

Population, July, 1963—10,900

#### Hardin

Bud's Locker & Freezer, 2011, 2013  
Hardin Bakery, 2051  
Hardin Market, 2011, 2013  
Hardin Tribune Herald, 2711, 2751  
Jack Helmann, 2015  
Holly Sugar Corp., 2063  
Jersey Creamery, Inc., 2021, 2024, 2026  
Alex Martin, 2099  
Saunders Lumber Co., 2421

#### Lodge Grass

Black Lumber Co., Inc., 2421  
R. E. Simpson, 2421

### Blaine County

Population, July, 1963—8,300

#### Chinook

Chinook Bakery, 2051

Chinook Opinion, 2711, 2751  
Diamond Asphalt Co., 2911, 2951  
Milk River Creamery, 2021, 2024  
Milk River Elevator Co., 2042

#### Harlem

The Harlem News, 2711, 2751

### Broadwater County

Population, July, 1963—2,800

#### Toston

W. E. Jewett, 2421

#### Townsend

Broadwater Creamery, 2021, 2024, 2026  
Campbell Sawmill, 2421  
Dwyer Bros. Lumber Co., 2421  
Emerson Stud Mill, 2421  
Green's Processing Plant, 2011  
Henison Pole Plant, 2491  
Maltson Lumber Company, 2421  
McHenry Sawmill, 2421  
Neifert & White Ready-Mix, 3273  
Smith Sawmill, 2421  
Star Publishing Co., Inc., 2711, 2751  
Teslow, Inc., 2042  
Townsend Lumber Co., Inc., 2421  
Townsend Sawmill, 2421  
Wade Sawmill, 2421

### Carbon County

Population, July, 1963—8,100

No information reported

### Carter County

Population, July, 1963—2,500

#### Ekalaka

Bees Best Honey, 2099  
Dick's Shop, 3171  
Eagle Publishing Co., 2711  
Parks Brothers, 3295

### Cascade County

Population, July, 1963—81,600

#### Cascade

Cascade Courier, 2711, 2751

#### Great Falls

A. A. Printers & Lithographers, 2751, 2752  
The Anaconda Company, 3341  
Anaconda Wire & Cable Co., 3351, 3352  
Ario's Saddle Shop, 3199  
Ayrshire Dairy, Inc., 2026  
Barsotti Bros. Meat Packing Co., 2011  
Beatrice Foods Co., 2024, 2026  
Beckman Bros., Inc., 2371, 3111, 3141, 3151  
Berger Meat Co., Inc., 2011  
Big Stack Chip & Food Company, 2099  
Bill's Sheet Metal, 3444  
Coscade Coach Co., 3791  
Coscade Sheet Metal, 3444  
Century Distribution, 2511  
Clark's Orthopedic Supply, 3842  
Concrete Service, Inc., 3273, 3295  
Cove-Lox Log Homes, 2433  
Craig's Bakery, 2051  
Duffield's Cabinet Shop, 2431  
Eddy Bakeries Co., Inc., 2051  
Electric City Printing Co., 2751, 2752  
Electrical Products Consolidated, 3993  
Elk River Concrete Products Co. of Montana, 3711  
Erick's Print Shop, Inc., 2751, 2772  
Fagenstrom & Son, 3271  
Falls Sheet Metal Works, 3444  
Formicove Manufacturing & Distributing Co., 2431  
Gamer's Bakery, 2051  
General Mills, Inc., 2041, 2042  
Great Falls Breweries, 2082  
Great Falls Coca-Cola Bottling Co., 2086  
Great Falls Engraving Co., 2793  
Great Falls Forest Products, Inc., 2421  
Great Falls Iron Works, 3441, 3443  
Great Falls Meat Company, 2011  
Great Falls Ready Mix, 3273  
Great Falls Tent & Awning, 2394  
Greene's Sheet Metal, 3444  
Grogan Robinson Lumber Company, 2433  
Hansen's All Star Dairy, 2026  
Hedrick's Sheet Metal, 3444  
Hickory Kitchen, 2013  
Industrial Machine Company, 3591  
Industrial Plastics, Inc., 3079  
Industrial Steel, Inc., 3443, 3441  
Edwin Johnson Plumbing & Heating, 3444  
A. T. Klemens & Son, 3444  
Kynett's Mattress Factory, 2515  
The Leader, 2711, 2751  
Legowik Graphic Arts Studios, 3993  
Liberty Corner Confectionery, 2071  
Liquid Assets, Inc., 2086  
Mickey's Packing Plant, 2011  
Montana Farmer-Stockman, 2711  
Moderne Cabinet Shop, 2511, 2541  
Montana Flour Mills Co., 2041  
Montana Granite Industries, 3272, 3281





**Creston**

Krause Lumber Co., 2421

**Fortine**

M. E. Greer, 2421

**Hungry Horse**

Eastern Model Railway Company, 3941

Hungry Horse Sand & Gravel, Inc., 3295

**Kalispell**

Aluminum Products, Inc., 3442

American Sign Service, 3993

American Timber Co., 2421

Richard V. Bain Cabinet Shop, 2511

F. Roy Bauer, 2411

Bell Manufacturing Corp., 3791

Gene Birky, 2411

Harry Birky, 2411

Broeder Bros. Lumber Co., 2411, 2421

The Cabinet Shop, 2511

C & C Plywood Corp., 2432

Circle K Packing, 2011

Cole's Machine Shop, 3591

Chester A. Corneliuson, 2411

Creston Post & Pole Yard, 2491

Elektrik Maid Bakery, 2051

Engebretson Gravel, Inc., 3295

Everett Wood Products, 2421

Evergreen Timber Company, 2421

F & C Mill, 2421

Flathead Coca-Cola Bottling Co., 2086

Forest Products Co., Inc., 2421

General Sheet Metal, 3444

Glacier Concrete & Metal Pipe Co., 3271, 3172, 3444

Glacier Park Boat Builders, 3732

Glacier Wholesalers, 2036

Lester Hutton, 2421

Inland Laker Boats, 3732

The Inter Lake Publishing Co., 2711, 2751

Jackson Machine Shop, 3591

Clarence J. Johnson, 2411

Elwin Johnson, 2411

Kalispell Bottling Co., 2086

Kalispell Cabinet Works, 2433, 3441

Kalispell News, 2711, 2751

Kalispell Pole & Timber Co., 2491

Kalispell Sheet Metal Works, 3444

Kalispell Stone & Marble, 3281

James A. Kauffman, 2411

Henry A. Keller, 2411

Monty Kennedy, 2426

McElroy & Wilken Ready Mix, 3273, 3295

Mendian Dairy, 2026

Byron E. Metcalf Logging, 2411

Mary Meyers, 2421

Montana Engraving, 2793

Montana Evergreen, Inc., 3999

Montana Saw Service, 2421

Mountain Manufacturing Co., Inc., 3531

Olse Machine Works, 3591

O'Neil Lumber Co., 2431

O'Neil Printers & Office Supp., 2752, 2751

P & W Lumber, 2421

Reid's Metallizing Shop, 3471

Richards Sheet Metal, 3444

Riechold Chemicals, Inc., 2821, 2791

Rolie's Machine Works, 3599

William L. Royer, 2421

Schmid & Hardinger, 2421

Hall Sharon, 1951

H. E. Simpson Lumber Co. 2421

Skyline Dairy, 2021, 2024, 2026

John Slack, 2411

John C. Slack, 2411

Snowline Tree Co., 3999

Sykes Grocery & Market, 2013

Thomas Printing, Inc., 2751, 2752

Melvin Timblin, 2411

Todd's Bake Shop, 2051

Veneers, Inc., 2432

Western Neon, 3993

Western Timber Products, 2421

Western Woodwork & Supply, 2431, 2511

Wickham & Wickham, 2411

C. H. Winkley, 2411

Burton O. Wollan, 2421

**Kula**

Loren S. Everett, 2411

Frank Gamma Sawmill, 2421

Bruce D. Kiser, 2421

**Lakeside**

Service Boat Co., 3732

Sian Craft Boat Co., 3732

**Marion**

Kinniburgh Brothers, 2421

Carl G. Liebig, 2411

Esther McIntyre, 2421

Austin Monk, 2421

Provence Brothers, 2411

Ralph Provence, 2411

Henry Schnackenberg, 2421

**Martin City**

Canyon Logging Co., 2411

F. K. & L. Lumber Co., Inc., 2421

**Olney**

G. I. Burk, 2411

Gustafson & Danielson, 2411

Leo Stock, 2411

William E. & Robert D. Watson, 2421

**Polebridge**

L & S Lumber Co. 2421

**Somers**

Keith & Larry Grace, 3931

Lee Craft Boats, 3732

Montana Salvage Inc., 2871

Bruce H. Walker, 2411

**West Glacier**

Dalimuta & Son, 2421

Little Creek Logging Co., 2411

Montana House, 2033, 3984, 3999

**Whitefish**

Lawrence L. Agnew, 2421

Allen Bowley, 2421

Brown Bros. Christmas Tree Yard, 2411, 2499

Cascade Machine Works, 2421, 2432

Chillard Hanley, 2411

Iverson & Son, 2411

Ernest F. Micho, 2421

North Montana, 2421

Bruce Reimer, 2411

David H. Roth, 2411

Glenn A. Stevens, 2411

Sullwater Timber Products, 2421

Touch O' Magic, 2099

Turner Post Treating Plant, 2491

Valley Sports News, 2711

Russell C. Warner, 2411

Whitefish Block Shop, 3271

The Whitefish Pilot, 2711, 2751

Wood Post Co., 2411

**Gallatin County**

Population, July, 1963—27,100

**Belgrade**

Belgrade Allalfa Products, 2042

Belgrade Creamery, 2021, 2034

Bill Chaney, 2411

Auburn Cockerham, 2411

Elder Brothers Logging, 2411

George R. Gabbard, 2411

Golden Montana Honey Co., 2099

Edward J. Smart Logging, 2411

M. L. Thomas, 2411

Yellowstone Pine Co., Inc., 2421

**Bozeman**

Avery Adams, 2411

Allied Art Studio, 3993

Allied Manufacturing Co., 394

The Aircraft Printers, Inc., 2751, 2752

Gilbert M. Arts, 2411

Badgley Machine Shop, 3522

Joseph W. Barnett, 2099

Berton's Bakery, 2051

Best Dairy Farms, 2024, 2026

Bestway Building Center, 3273

Three D Lumber Co., 2421  
Urdahl Signs, 3993  
Vollmer & Sons, Inc., 2011

#### **Gallatin Gateway**

Barnes Brothers, 2411  
Becker & Munyan Logging Co., 2411  
F. W. Blanchard Logging, 2411  
Glacier Mountain Cheese Co., 2022  
Jay Hargrove, 2411  
Lumber Enterprises, Inc., 2433  
Robert E. Olsen Logging, 2411

#### **Manhattan**

Barnes Logging, 2411  
Cloverdale Apiaries, 2099, 2842  
H. B. Fisher Body Shop, 3713  
Kelso Apiaries, 2099  
Manhattan Creamery, 2021, 2026  
Oyer Lumber Co., 2421

#### **Three Forks**

Builders Products, Inc., 3271  
William T. Callentine, 2411  
Jacks Welding & Repair Shop, 3591  
Jera Talc & Chemical Co., 3295  
Bon Ton Inc. of Billings, 2042  
Boyd's Donuts, 2051  
Boyd's Jewelry, Inc., 3961  
Bozeman Coca-Cola Bottling Co., 2086  
Bozeman Granite Works, 3281  
Bozeman Sheet Metal, 3444  
Stephen Ray Cord, 2411  
Cass Mattress & Upholstery, 2512, 2515  
Clean Cut Meats, 2011  
Corcoran Pulpwood Co., 2411  
Darigold Farms, 2021, 2022, 2024, 2026  
Edsall Construction Co., 2511  
English Sheet Metal, Inc., 3444  
Gallatin County Tribune, 2711, 2751  
Gallatin Monumental Co., 3281  
The Gallatin Publishing Co., 2711, 2751  
Golden Krust Bakery, 2051  
D. Bryce Goulding, 2421  
Hall-Dix Signs, 3993  
Merlyn J. Horen, 2411  
W. D. Howells, 2511  
Idaho Pole Company, 2491  
W. P. Kackelmier, 2411  
Kenyon-Noble Lumber Co., 3273  
Lehrkinds Ice Cream, 2024  
McLees Sheet Metal, Inc., 3444  
Ellis McNinch, 2411  
Midwest Welding & Machine Shop, 3591  
Montronics, Inc., 3662  
Pioneer Ready Mix, Inc., 3273, 3295  
Rainbow Signs, Inc., 3993  
Shadoans Sawmill, 2421  
T. G. Taylor, Contractor, 2411  
Teslow, Inc., 2042

Three Forks Herald, 2711, 2751  
Three Forks Manufacturing Co., 2871

#### **Trident**

Ideal Cement Co., 3241

#### **West Yellowstone**

Elk Stud Mill, 2421  
Charles J. Ericson, Inc., 2411, 2421  
Ham Sign Company, 3993  
West Yellowstone Lumber Co., 2421  
Earl Wilcox, 2411

### **Garfield County**

Population, July, 1963—2,000

#### **Jordan**

Jordan Tribune, 2711

### **Glacier County**

Population, July, 1963—12,500

#### **Browning**

Bell Saddlery Shop, 3171, 3172, 3199  
Rex Brown Lumber Company, 2421  
Evans Sheet Metal, 3444  
The Glacier Reporter, 2711, 2751  
Greco Bakery, 2051  
House Ready Mix Co., 3273, 3295

#### **Cut Bank**

Atlas Tank Company, 3443  
Central Pre-Mix, Inc., 3273  
Cut Bank Pioneer Press, 2711, 2751  
Cut Bank Sand & Gravel, 3273, 3295  
Cut Bank Sheet Metal Works, 3444  
Frenchy's Sand & Gravel, 3295  
Kraft Machine & Supply, 3591  
Maxie Bakery, 2051  
Union Oil Company of California, 2911  
Western Breeze, 2711, 2751

### **Golden Valley County**

Population, July, 1963—1,200

No information reported

### **Granite County**

Population, July, 1963—3,000

#### **Drummond**

Sorenson Brothers Sawmill, 2421

#### **Hall**

Flint Creek Lumber Co., 2421  
Montana Phosphate Products Co., 2819

#### **Philipsburg**

Jess Evans Welding, 3591  
North Side Auto, 3591  
Rocky Mountain Packing Co., Inc., 2011  
Vita Rich Dairy, Inc., 2024, 2026

### **Jefferson County**

Population, July, 1963—4,400

#### **Boulder**

Boulder Monitor, 2711, 2751

#### **Cardwell**

Montana Pottery Company, 3269

#### **Clancy**

Wade Lumber Co., 2421

#### **Montana City**

Kaiser Cement Gypsum Corp., 3241

#### **Whitehall**

Glacier Mountain Cheese Co., 2022  
Jefferson Valley News, 2711, 2751  
Mathisen Sheet Metal & Plumbing, 3444  
Rocky Mountain Homes, 2433  
Whitehall Sawmill, 2421

### **Judith Basin County**

Population, July, 1963—3,100

#### **Stanford**

Judith Basin Press, 2711, 2751  
Granite Timber Treating Plant, 2491  
The Philipsburg Mail, 2711, 2751  
The Rifle Shop, 1951  
Taylor-Napp Mining Co., 3295  
Walker Logging, 2411

### **Hill County**

Population, July, 1963—19,400

#### **Havre**

Blue Star Bakery, 2051  
Colahans Market, 2036  
Coca-Cola Bottling Co., 2086  
Eddy's Bakery, 2051  
Farmers Grain Exchange, 2042  
Glacier Trail Creamery, 2021, 2024  
Haldahl Sheet Metal Works, 3444  
Hansen Sheet Metal & Refrigeration Shop, 3444  
Havre Concrete Block Co., 3271, 3272  
Havre Daily News, 2711, 2751, 2793  
Havre Ready Mix Concrete Co., 3273  
Havre Sign Service, 3993  
Hi-Line Publishing Co., 2711, 2751  
Hill County Printing Co., 2751, 2793  
Krezelaks, Inc., 2011  
Modern Machine Works, 3591



**Lake County**  
Population, July, 1963—13,700

**Arlee**

Earling Logging Co. Inc. 2411  
Jack Flansburg, 2411  
Otis E. Park, 2411

**Big Arm**

Ernest D. Davis, 2411

**Dayton**

Dayton Timber Co., Inc., 2411

**Pablo**

Big Bear, Inc. of Montana, 286  
Gustafson & Danielson Logging, 2411  
Plum Creek Lumber, 2421

**Polson**

Dean Bailey, 3591  
Bentz Sheet Metal, 3444  
Clardge Logging Co., Inc., 2411  
Danielson Brothers, 2421  
Dick's Agate Shop, 3281, 3911  
The Donut Shop, 2051  
Dupuis Bros. Lumber Co., 2421  
James Lumber Co., 2421  
Lake City Home Bakery, 2051  
Eli W. Morigeau, 2411  
Olsen Concrete Products, 3271  
Polson Machine Co., 3591  
Ready Mix Concrete Co., 3273, 3295  
Clyde E. Tompkins, 2411  
Treasure State Publishing, 2711, 2751  
United States Plywood Corp., 2432  
West Shore Cabinet Shop, 2511  
White's Printers, 2751

**Ronan**

Consolidated Dairies of Lake County, Inc.  
2021, 2022, 2024, 2026  
Lockwood Lockers, 2011  
Ronan Pioneer, 2711, 2751  
Leo Sias, 2411

**St. Ignatius**

Horriman Trout Co. Inc., 2036  
K P Logging Co., 2411  
Robert's Roost Knives, 3421, 3423

**Swan Lake**

Robert L. Martin, 2411

**Lewis & Clark County**  
Population, July, 1963—29,700

**East Helena**

American Chemet Corp., 2851, 3295, 3333  
American Smelting & Refining, 3332  
The Anacondo Company, 2816

421  
Cabinet Shop, 2411  
Dwight Darrah, 2421  
Fifty Bar B-Q Rib Co., 2399

**Helena**

Al & Ted's Honey Shop, 2099, 2842  
American Sheet Metal & Roofing Service Inc., 3444  
Armor Metal Products, 3443, 3522, 3693  
Bill's Bakery, 2051  
Bill's Key & Repair, 3429  
Bradford Machine Works, 3531  
Buck's Work & Ranchwear, 3199  
Caird Engineering Works, 3443, 3599  
Capital Dental Laboratory, 3843  
Capitol Neon, Inc., 3993  
Clover Leaf Dairy, 2024, 2026  
Columbia Paint Co., 2851  
Commercial Sign & Sho-Cord Shop, 3993  
Dairyland Wholesale, 2024  
Jean P. DeBree, 2421  
DeVore's Saddlery, 3199  
Dorrington Dental Laboratory, 3843  
Draperies by Duane, 2391  
Eddy Bakeries Coke Shop, 2051  
Educational Co-op Publishing Co., 2721  
Elk River Concrete Products Co., 3272  
Evans Shop, 3449  
Eva's Bakery, 2051  
Foley's Millwork Company, 2431  
Gamer's Bakery, 2051  
The Goodie Shop, 2051  
Dave Hohn Sawmill, 2421  
Helena Bottling Co., 2086  
Helena Coca-Cola Bottling Co., 2086  
Helena Sheet Metal Works, 3444  
Helena Sign & Display Co., 3993  
Helena Stamp Works, 3953  
Helena Venetian Blind & Shade Co., 2591  
Hudson's Upholstery & Carpet, 2391  
Jack's Fire Equipment Co., 3713  
Joe's Cabinetry & Woodcraft, 2511, 2512  
Jack N. Kinney Signs, 3993  
Frank Mogara, 2421  
Modern Welding, 3443, 3449  
Modern Woodcraft, 2431, 2511  
Monitor Offset Printers, 2752  
Montana Animal Products Co., 2042  
Montano Meat Company, Inc., 2011  
Montana Record Publishing Co., 2711, 2751  
Montana Stone, Inc. 3281  
Nelson Sawmill, 2421  
Nettleton's Sawmill, 2421  
Parrot Confectionery, 2071  
Phillips Dairies, Inc., 2026  
Pot-O-Gold Noodles, 2098  
Quality Homes, 2433  
Reber Plumbing & Heating, 3444

Rock Hand & Co., 346.  
Rummel Monumental Works, 3281  
Saweway Bakery, 2051  
Sperry's Canvas Shop, 2394  
Stohler Picket Co., 2499  
Mrs. John W. Standley, 3269  
The State Publishing Co., 2751, 2752  
Thurber Printing Co., 2752  
Tressler-Lowe Ready Mix Concrete, 3273, 3295  
Warren Sales & Service, Inc., 3586  
Yuhas Manufacturing Co., 2511, 2531

**Lincoln**

George C. Anderson, 2411  
Berglund & Orr, 2411  
Blackfoot Forest Products Co., 2491  
Bouma Post Yard, 2491  
Howard W. Davis, 2421  
Delaney & Sons, Inc., 2421  
Don Evans Sawmill, 2421  
Clifford Gehring, 2411  
Don Hammer, 2411  
Kenneth Hoeffner, 2411  
Sandon Logging Co., 2411  
Suburban Lumber Company, 2411  
John A. Thompson, 2411  
Thompson Lumber Company, 2421

**Wolf Creek**

Don Hilger, 2421  
Kenny Bros. Lumber Co., 2421

**Liberty County**  
Population, July, 1963—2,800

**Chester**

Liberty County Times, 2711, 2751, 2793  
Monarch Lumber Company, 3273

**Lincoln County**  
Population, July, 1963—13,300

No information reported

**McCone County**  
Population, July, 1963—3,400

No information reported

**Madison County**  
Population, July, 1963—5,000

**Ennis**

J. P. McDaniel, 2099, 2842  
Shaffer's Heating & Sheet Metal, 3444  
Cliff Sell, 2099, 2842

**Sheridan**

American Chevrolet Co., 2491  
 Sheridan Bakery, 28  
 Wind River Honey Co. (pany), 199, 2842

**Twin Bridges**

Brown-Wilson Honey Co., 1099, 2842  
 Jay & Sons Sawmill, 2421  
 Madronian, 2711, 275

**Meagher County**

Population, July, 1963—2,700

No information reported

**Mineral County**

Population, July, 1963—3,200

**Albion**

Robert G. B., 2411  
 Heaton Logging Co., 241

**Deborgia**

Riverside Post Company, 2491

**St. Regis**

J. L. Alexander, 2421  
 Burns Yak River Lumber Co., 2421  
 Irwin Post & Pole Company, 2421  
 MS Logging Co., 2411

**Superior**

Henry G. Anderson, 2411  
 Big Sky Logging Co., 2411  
 Cedar Creek Shop, 3591  
 Diamond National Corporation, 2421  
 James E. Groves, 2411  
 J. E. Hall, 2411  
 Mix Johnson, 2411  
 Mineral Publishing Co., 2711, 2751  
 E. C. Smith, 2421  
 Swerdsten Logging Co., 2411  
 Miles E. Tower, 2411  
 Donald Woods, 2411

**Missoula County**

Population, July, 1963—46,600

**Bonner**

Aracundo Forest Products, 2421, 2433  
 Ruana Knife Works, 3199, 3421, 3423

**Clinton**

Bonita Logging Co., 2411  
 E. Z. Logging, 2411  
 Flansburg Ranch Co., 2411  
 Jerry Montehus Logging, 2411

**Frenchtown**

John McDonald, 2411

**Huson**

R. D. K., 2411  
 Stark Mountain Logging Co., 2411

**Lolo**

Rossignol Logging & Ranch Co., 2411

**Milltown**

Edward L. Crouch, 2411

**Missoula**

The Advertiser, 2751  
 Albertson's Bakery, 2051  
 American Crystal Sugar Co., 2063  
 American Dental Manufacturing Co., 3843  
 Baker Logging, 2411  
 B-Dri Company, 2842  
 Beebe's Bakery, 2051  
 Bin Broadway, 2394  
 Bon Ton, Inc., 2051  
 Brookside Dairy, 2021, 2024, 2026  
 Buck Cabinet & Fixture Co., 2511  
 Buttre's East Gate Bakery, 2051  
 Buttre's Super Bakery, 2051  
 Robert J. Cameron, 2411  
 Chord Logging, 2411  
 Christensen's Wholesale Meats, 2013  
 Clay Roofing & Sheet Metal Co., 3444  
 Clark Logging, 2411  
 Clarks Fork Company, 2421  
 Clarks Orthopedic Supply, 3842  
 Coca-Cola Bottling Co., 2086  
 Community Creamery, 2024, 2026  
 Albertson, Inc., 3449, 3443  
 Curran Sign Co., 3993  
 C. & H. Wholesale Meats, 2013  
 Dahlgren's Upholstery, 2512  
 John R. Daily, Inc., 2011  
 Delaney's Bureau of Printing, 2752  
 Drapery & Venetian Blind Co., 2291, 2591  
 Eddy Bakery, 2051  
 Elk Horn Lumber Co., Inc., 2421  
 Evergreen Products Co., Inc., 2411  
 Fall Weather Logging, 2411  
 Fir West Logging Co., 2411  
 Milton T. Felsler Co., 2411  
 Ray Fetscher Logging, 2411  
 Ted Finlay, 2411  
 Fisher's Woodwork Shop, 2411  
 Forests West, 2411  
 Walter M. Fouty Logging, 2411  
 G. & L. Sharp, 2411  
 Garden City Granite Co., 3281, 391  
 Graybeal Heating & Air Conditioning, 3444  
 I. A. Hamilton Lumber Co., 2421  
 Hansen's Ice Cream, 2024  
 Harris Mattress Service, 2515  
 Emil Hausauer Logging, 2411  
 Havens Hair Trout Flies, 3949  
 Henke Pop Corn Co., 2099  
 Keith A. Hibbard, 2411  
 John J. Hogan, 2411  
 Home Service & Upholstery Co., 2512  
 Huson Logging Co., Inc., 2411  
 Industrial Air Products, 2813  
 Industrial Machinery Co., 3591  
 Intermountain Lumber Co., 2421  
 Kenneth W. Johnson, 2411  
 Ray Jorgenson, 2511  
 John C. Klapwyk, 2421  
 King Concrete, 3273, 3295  
 Jack Long Logging Co., 2411  
 Lucky Logger Co., 2411  
 M & S Ready Mix, 3295, 3273  
 McDonald's, Inc., 2411  
 Robert McKinley, 2411  
 Medo-Land Dairies, 2024, 2026, 2086  
 Mill Supply Co., 3553  
 Mission Homes, Inc., 2433  
 Missoula Creamery & Cold Storage Co., 2011, 2097  
 Missoula Pres-to-Logs Co., 2499  
 Missoula Rendering Co., 2094  
 Missoula Sawmills, Inc., 2421  
 Missoula Welding & Machine Works, 3591  
 Missoula White Pine Sash Co., 2431  
 Missoula Sentinel, 2711, 2751  
 Modern Furniture Factory, 2511  
 Montana Concrete Pipe Co., 3271, 3272  
 Montana Flour Mills, 2041, 2042  
 Mount Lolo Lumber Co., 2421  
 Mountain Press, 2752  
 William W. Nickert, 2411  
 H. L. Palmer Logging, 2411  
 Panel Structures, 2433  
 Pepsi-Cola Bottling Co., 2086  
 Art Pine Lumber Co., 2433  
 Pioneer Bake "N" Serve, 2037  
 Porter Food Products, 2099  
 Pott Trout Fly, 3949  
 D. A. Reber Logging, 2411  
 Reinhold Roofing & Sheet Metal, 3444  
 Rustic Homes, 2433  
 Salvage Logging Service, 2411  
 Schramm Packing Co., 2011  
 Skow Logging, 2411  
 Smith's Upholstery, 2512  
 Southern Universities Press, 2721  
 John H. Spaulding, 2411  
 F. B. Stondley, 2411  
 Stewart's Saddlery, 3199  
 Stillwater Logging, Inc., 2411  
 Super Sove Bakery, 2051  
 Taylor Sheet Metal & Roofing, 3444  
 George J. Thomas, 2411  
 The Times, Inc., 2711, 2751  
 Treasure State Manufacturing Co., 2431  
 Treasure State Metal Products, 3479, 3993



Tree Farmers, Inc., 2411  
 Tuck Spring & Steel, Inc., 3493, 3591  
 Type-Write Desk Mfg. Co., Inc., 2511, 2521  
 Van Evan Co., 2432  
 Waldorf Hoerner Paper Products Co., Inc., 2611, 2631  
 Walford Electric Co., Inc., 3993  
 Ward Manufacturing Co., Inc., 3531  
 Western Meat Packers, Inc., 2011  
 Western Montana Marble & Granite Co., 3281  
 Whitmire Custom Fiber Glass, 3732  
 Zip Beverage Company, 2086

#### **Seeley Lake**

Clearwater Logging, Inc., 2411  
 Gray Logging Co., 2411  
 Gray Lumber Co., 2421  
 Gray Milling Co., 2421  
 Gray Wood Products, 2429  
 Playhar Logging, 2411  
 Pyramid Mountain Lumber, Inc., 2421  
 Seeley Lake Milling Co., 2421

### **Musselshell County**

**Population, July, 1963—4,800**

#### **Roundup**

Roundup Bottling Company, 2086  
 Roundup Record Tribune, 2711, 2751  
 Sealey's Sawmill, 2411, 2421  
 Seitz & Bowers Processing, 2011  
 Yount's Sawmill, 2411, 2421

### **Park County**

**Population, July, 1963—13,100**

#### **Clyde Park**

Terry Mills, 2421

#### **Livingston**

Dan Bailey's Fly Shop, 3949  
 Birley Logging, 2411  
 Burkland Studs, Inc., 2421  
 Canyon View Lumber Co., 2421  
 Central Wholesale, Inc., 2086  
 Chaney Plumbing Co., 3444  
 Connolly's Livingston Creamery, 2021, 2024, 2026  
 Eggar Construction Service, 3273, 3295  
 Farmers Creamery, Inc., 2021, 2024, 2026  
 Wallace M. Ghoslin, 2411  
 Ideal Bakery, 2051  
 Jones Lumber Co., 2421  
 The Livingston Enterprise, 2711, 2751  
 Livingston Marble & Granite Works, 3281  
 Moullet Logging, 2411  
 Paradise Rainbows, 2031, 2036  
 Parco Neon Company, 3993  
 Park County News, Inc., 2711, 2751

Park Lumber Co., 2421  
 Park Wood Products, Inc., 2411  
 Quick Freeze Packing Co., 2011  
 Schafer's Sheet Metal & Roofing, 3444  
 Vandervoort Logging, 2411  
 Western Plumbing & Heating, 3444  
 Wilcoxson's, Inc., 2024, 2071  
 Wilmot Logging, 2411  
 Yellowstone Quality Chekd Dairy, 2024, 2026

#### **Wilsall**

Art Beach, 2411  
 Taylor R. Van Blaricom, 2411

### **Petroleum County**

**Population, July, 1963—900**

#### **Winnett**

Winnett Times, 2711, 2751

### **Phillips County**

**Population, July, 1963—6,200**

#### **Malta**

Bancroft Apiaries, 2099, 2842  
 Dobson's Implement, 3591  
 LaFond Construction Co., 3273, 3295  
 Malta Bakery, 2051  
 Meadow Valley Creamery, 2021, 2024, 2026  
 Modern Signs, 3993  
 Phil-Co Feed & Seed, 2042  
 Phillips County News, 2711, 2751

#### **Saco**

Saco Alfalfa Products, Inc., 2042  
 Saco Independent, 2711, 2751

### **Pondera County**

**Population, July, 1963—7,800**

#### **Conrad**

Bestway Lumber Co., 3273  
 Bud's Welding & Machine Shop, 3591  
 Conrad Bakery, 2051  
 Conrad Packing Co., 2011  
 Egan Metal Products, 3444  
 Engstrand & Hicks Co., 3295  
 Grubb Sand & Gravel, 3295  
 Independent Observer, 2711, 2751  
 O & K Feeds Service, 2042  
 Rocky Mountain Quick Mix Co., 3273  
 Sunburst Biochemical Co., 2046, 2099

#### **Valler**

Aaberge Leather Shop, 3171, 3172, 3199

### **Powder River County**

**Population, July, 1963—2,500**

#### **Broadus**

Frank C. Bidwell, Sawmill, 2421  
 Powder River County Examiner, 2711, 2751

### **Powell County**

**Population, July, 1963—7,300**

#### **Deer Lodge**

H & N Sheet Metal Fabricators Co., Inc., 3444  
 No other information reported

### **Prairie County**

**Population, July, 1963—2,300**

No information reported

### **Ravalli County**

**Population, July, 1963—12,400**

#### **Conner**

Curtis Wildey Logging, 2411  
 Milo E. Wilson, 2411

#### **Corvallis**

Burnham Logging, 2411  
 Marsh Apiaries, 2099, 2842  
 Pile Apiaries, 2099, 2842  
 Thorson Manufacturing Co., 3522

#### **Darby**

Bitter Root Timber Industries, Inc., 2421  
 Coultas Conner Logging, 2411  
 Del Conner Lumber, Inc., 2421  
 Roger B. Conner, 2411  
 Intermountain Lumber Co., 2421  
 Harold Edward Irwin, 2411  
 S & W Sawmill, 2421  
 Sargent & McKinney, 2411  
 Roy A. Shook, 2411  
 Storer & Flightner, Inc., 2421  
 Charles E. Walker, 2411  
 Wilson Machine Shop, 3591

#### **Hamilton**

Bitter Root Cannery, 2033  
 Bitter Root Irrigation & Fertilizer Co., 2872  
 Bitter Root Ready Mix, 3273  
 Brinkerhoff Logging, 2411  
 Donaldson's Ready Mix, 3273, 3295  
 Fullerton's Plumbing & Heating Shop, 3444  
 Handley's Bakery, 2051  
 Hydro Point Engineering, 3441, 3443  
 Jacob's Furniture Co., 2512

Hans Jacobsen, 2411  
 Long Loggers, Inc., 2411  
 John W. Maydole, 2411  
 Peat Pack, Inc., 2879  
 Quick Service Neon Co., 3993  
 Rasmussen's Slaughter House, 2011  
 Ravalli County Creamery, 2021, 2022, 2024  
 Ravalli Republican, 2711, 2751  
 Ravalli Seed & Grain Co., 2042  
 Simmons Cabinet Shop, 2511  
 Simmons Wood Products, 2426  
 John Snider Logging, 2411  
 Taber Mill Company, 2421  
 Tolman Meat Processing Plant, 2011  
 Tom's Home Bakery, 2051  
 Valley Plumbing & Heating Co., 3444  
 Western News, 2711, 2751

#### **Stevensville**

Bass Creek Post & Pole Plant, 2491  
 C & W Construction & Mfg. Co., Inc., 3273, 3295  
 City Bakery, 2051  
 Foremost Dairies, Inc., 2022  
 Livergood Meat Market & Storage Lockers, 2011  
 Mrs. Earl Martin, 3961  
 Roberts Logging, 2411  
 Scruggs Slaughter House, 2011  
 Snedigar Welding & Blacksmith Shop, 3591  
 Stevensville Feed & Fuel Co., 2042  
 Robert Walker Lumber Mill, 2421

#### **Victor**

Dunbar Sawmill, 2421  
 G. & R. Logging, 2411  
 Rimmeroid Logging, 2411  
 Rockfords Rock & Jewelry Shop, 3911

### **Richland County**

Population, July, 1963—11,000

#### **Fairview**

Fairview Bulk Fertilizer Plant, 2872  
 Fairview News, 2711, 2751

#### **Sidney**

Blue Rock Products Co., 2086  
 Linton Corporation, 3079, 3272  
 Peavy Company, 2872  
 The Sidney Herald, 2711, 2751  
 Sidney Locker & Creamery Co., 2021, 2024, 2026  
 Sidney Millwork Co., 2431  
 Sidney Red-E-Mix Co., 3273, 3295  
 Sidney Rendering Company, 2094  
 Snowflake Bakery, 2051  
 Valley Meat Packing Co., 2011

### **Roosevelt County**

Population, July, 1963—12,400

#### **Culbertson**

Moore Dairy, 2021, 2024, 2026  
 Pacific Vegetable Oil Corp., 2042, 2096  
 The Searchlight, 2711, 2751  
 White's Metal Shop, 3444

#### **Froid**

Froid Weekly, 2711, 2751

#### **Poplar**

The Poplar Standard, 2711, 2751

#### **Wolf Point**

City Meat Co., 2011  
 Herald News, 2711, 2751  
 Honeyland Apiaries, 2099, 2842  
 Montana Gems, 3961  
 Tex-Star Petroleum Co., 2911  
 Rothe's Dairy, 2021, 2024, 2026  
 Wolf Point Iron Works, 3591  
 Wolf Point Saddlery, 3171, 3172, 3199  
 Wood's Powr-Grip Manufacturing Co., 3423

### **Rosebud County**

Population, July, 1963—6,200

#### **Ashland**

Ashland Lumber Co., 2421  
 Guild Arts & Crafts, Inc., 3079  
 Lenyard Ready Mix, 3273, 3295

#### **Forsyth**

Curtis Rack & Endgate, 3522  
 Farmers Union G.T.A. Line Elevator, 2042  
 Forsyth Independent, 2711, 2751  
 Forsyth Lumber Company, 3273  
 Post's Heating & Sheet Metal, 3444  
 Rose's Agate Shop, 3961  
 Sunrise Bakery, 2051

#### **Lame Deer**

Siegmund Lumber Co., 2421

### **Sanders County**

Population, July, 1963—7,000

No information reported

### **Sheridan County**

Population, July, 1963—6,700

No information reported

### **Silver Bow County**

Population, July, 1963—47,300

#### **Butte**

Anchor Engineering Rebuilders, 3714  
 H. Fritz Apostel, 2511  
 Ashton Engraving, 2752, 2793  
 Biastoc Meats, 2011  
 Bird's Home Baked Goods, 2051  
 Blanchard Ice Cream Company, 2024  
 Brilliant Nean Co., 3993  
 Brown's Auto Parts & Machine Co., 3591  
 Bruce's Donut Bar, 2051  
 Butte Brass & Controls, 3494  
 Butte Brewing Corp., 2082  
 Butte Machinery Co., 3591  
 Butte Nean Outdoor Advertising Co., 3993  
 Butte Orthopedic Appliance Co., 3842  
 Butte Sash & Door Co., 2431  
 Butte Tin Shop, Inc., 3444  
 Chicago Furniture & Mattress Co., 2515  
 City Heating & Tin Shop, 3444  
 Colonial Coke Shop, Inc., 2051  
 Continental Concrete Company, 3273  
 Coombes Interiors, 2591  
 Crystal Creamery, 2021, 2022, 2024, 2026  
 Eddy's Bakery, 2051  
 Five Mile Sawmill, 2421  
 Gamer's Bakery, 2051  
 Gold Top Heating, 3433  
 Tom Greenfield, Inc., 2751  
 Harkins Bottling Co., 2086  
 Harrington Bottling Company, 2086  
 Keenan Manufacturing Jewelers, 3911, 3961  
 K.T. Liquid Feed Co., 2042  
 The Letter Shop, 2751, 2752  
 Linde Company, 2813  
 Lolly Rings, 2024, 2071  
 Mark's Donuts, 2051  
 McGraw Machine Fabricating, 3591  
 McKee Printing Co., 2751, 2752  
 Mollie's Pasties, 2051  
 Montano Broom & Brush Co., 3981  
 Montana Building & Cabinet, 2511  
 Montana Cosket Company, 3988  
 Montana Concrete Pipe, 3272  
 Montana Ornamental Iron Works, 3449  
 Montana Pole & Treating Plant, 2491  
 Montana Standard & Butte Daily Post, 2711, 2751  
 New Butte Butchering Co., 2011  
 Pioneer Concrete & Fuel Co., 3273  
 Rock Springs Dairy, 2026  
 Rocky Mountain Dairy, 2026  
 Rocky Mountain Homes, 2433  
 Royal Bakery, 2051  
 Rush Pie Shop, 2051  
 Seven-Up Bottling Co., 2086  
 Sheep Shearers Union, 3522  
 Shepperds Sweets, 2071



Sigman Meat Co., Inc., 2011  
 Skenders Ceramics, 3269  
 South Side Dairy, 2026  
 Sullivan Sheet Metal Works, 3444  
 Sullivan Valve & Engineering Co., 3433  
 Sun Kist Dairy, 2026  
 Tierney Brothers Reary-Mix Concrete, 3273, 3295  
 Toljan Sign Company, 3993  
 Town Talk Bakery, Inc., 2051  
 Treasure State All Star, 2021, 2026  
 Trevillion-Johnson Memorials Co., 3281  
 Truzzolino Food Products, 2099  
 Victor Chemical Works, 2819  
 Western Iron Works, Inc., 3441, 3443  
 Western Refrigeration, 2024, 2097

#### Ramsay

National Burial Vault, 3272

### Stillwater County

Population, July, 1963—5,400

#### Columbus

Columbus Creamery, 2021, 2024, 2026  
 Columbus News, 2711, 2751  
 Columbus Saddle & Shoe Shop, 3171, 3199  
 Columbus Welding & Blacksmith Shop, 3591  
 Timberweld Manufacturing Co., 2433

### Sweet Grass County

Population, July, 1963—3,200

#### Big Timber

Big Timber Bakery, 2051  
 Big Timber Fly Shop, 3949  
 Big Timber Pioneer, 2711, 2751  
 The Fort, 3911  
 Roy Geller, 3199  
 Goosey-Gander Toys, 3941  
 Robert L. McKenzie, 3273, 3295  
 Sweet Grass Creamery, 2021, 2024, 2026

### Teton County

Population, July, 1963—7,300

#### Choteau

Bouma Post Yard, 2491  
 Choteau Acantha, 2711, 2751  
 Choteau Bakery, 2051  
 Choteau Sheet Metal, 3444  
 Erly Corporation, 3499  
 Montana Mineral Feed Co., 2042  
 Richem & Sons, 3273  
 Superior Dairy, 2021, 2024, 2026

#### Dutton

Wheat Center News, 2711, 2751

#### Fairfield

Fairfield Seed & Feed, 2042  
 Fairfield Shoe Shop, 2394  
 Fairfield Times, 2711, 2751  
 GTA Elevator, 2042  
 GTA Fertilizer Plant, 2871  
 Meyer Ditcher Company, 3522  
 Sands Construction, 3272, 3273

### Toole County

Population, July, 1963—8,000

#### Kevin

Big West Oil Company, 2911

#### Shelby

Adams Machine Shop, 3591  
 J.H. Meat Company, 2011  
 Marias Packing Company, 2011  
 North Star Refining Co., 2911  
 Sanders Sheet Metal Co., 3444  
 Seven-Up Kist Bottling Co., 2066  
 Shelby Bakery, 2051  
 Shelby Promoter, 2711, 2751  
 Shelby Times, 2711, 2751

### Treasure County

Population, July, 1963—1,400

No information reported

### Valley County

Population, July, 1963—21,900

#### Glasgow

Austin Packing Co., 2011  
 Baker's Jewelry, 3961  
 Coca-Cola Bottling Co., 2086  
 Fossum Ready-Mix, 3273, 3295  
 Glasgow Bakery, 2051  
 Glasgow Publishing Co., 2711, 2751  
 Glasgow Ready-Mix Concrete, 3273, 3295  
 Johnson Plumbing & Sheet Metal Works, 3444  
 Northern Bloom Honey Co., 2099, 2842  
 Occident Elevator Co., 2042  
 Wolden's General Repair Shop, 3591

#### Hinsdale

Hinsdale Tribune, 2711, 2751

### Wheatland County

Population, July, 1963—2,900

#### Harlowton

Ferguson Feed Mill, Inc., 2042

Harlo Creamery & Jersey Dairy, 2026  
 Harlowton Bakery, 2051  
 Harlowton Times & Ryegate Clarion, 2711, 2751  
 Polly's Upholstering, 2391

### Wibaux County

Population, July, 1963—1,700

#### Wibaux

Wibaux Pioneer Gazette, 2711, 2751

### Yellowstone County

Population, July, 1963—82,000

#### Billings

A & A Concrete Lawn Ornaments, 3272  
 A & I Rapid Print Co., 2752  
 Americana Homes, Inc., 2433  
 Armco Steel Corp., 3444  
 Artificial Ice & Cold Storage Co., 2097  
 Peall, Inc., 3715  
 Beatrice Foods Company, 2021, 2024, 2026  
 Beauty Vent Awning Mfg. Co., 3442  
 Berkley Equipment & Machine Works, 3599  
 Beverages of Billings, Inc., 2086  
 Big Horn Canning Company, 2033  
 Billings Engraving Co., 2793  
 Billings Machine & Welding Shop, Inc., 3591  
 Billings Neon Manufacturing Co., 3993  
 Billings Orthopedic Appliance Shop, 3842  
 Billings Prepared Potato Co., 2099  
 Billings Rendering Co., 2094  
 Billings Sash & Door Co., 2431  
 The Billings Times, 2711, 2751  
 Blue Front Blacksmith & Welding Shop, 3591  
 Bannie Lorraine Candy Shop, 2771  
 Builders Mart, Inc., 2431  
 Building Specialties, 2899

Collman Lumber & Treating Co., Inc., 2491  
 Concrete Products Co., Inc., 3271, 3272  
 Consumers Paint Manufacturing Co., 2851  
 Continental Oil Company, 2911, 2951  
 Daniels Sheet Metal, 3444  
 Dave's Heating & Air Conditioning Service, 3444  
 Doll House Condis, 2071  
 Eddy's Bakery, 2051  
 Elk River Concrete Products Co. of Montana, 3272  
 Empire Heating & Cooling Co., 3444  
 Empire Printing, Inc., 2751  
 Empire Steel Manufacturing Co., 3443  
 The Gazette Printing Co., 2711, 2751  
 General Signs, Inc., 3993  
 Goodies Spud Chip Co., 2099  
 Great Northern Tool & Supply Co., 3591  
 The Great Western Sugar Co., 2063  
 Greenleaf Agate Shop, 3911  
 Hagens Reproductions & Lithographs, 2752, 3953

Raymond Hakerl 64;  
 Hall Machine Co. Inc. 9  
 Hansen Carbonic Serv. 181  
 Harmon Body Works 371  
 Hitz Construction Co.  
 H. R. Oxygen Supply, 41  
 Humble Oil & Refining Co. 191, 299;  
 Ideal Bakery 205  
 Jenkins Venetian Blind Co. 9  
 K.C. Machine & Manufacturing Co.  
 Langs Cemetery Service, 72  
 Leedham & Land Printing Co.  
 Leeman Iron Works 344  
 Lude Company, 2813  
 Lindrey Sash & Hardware Co.  
 The Lovell Day Products Company  
 Marketing Manufacturers Co. 344  
 Maynard Stationery Company 27  
 McCoy Print Horn Radish, 200  
 McLeod Empire Packing Co. Inc. 101  
 Midland Feed Company 2042  
 Midlands Minerals Company, 170, 123  
 Midwest Cabine Company 20, 24  
 Mork Supply Inc. 2431  
 Montana Cereal Co. 2043  
 Montana Lightweight Aggregate Company  
 3271, 3272, 3295  
 Montana Sulphur & Chemical Company 2819  
 Montana Welding & Radiator 449  
 Murray Manufacturing Co. of Billings, 3531  
 Nalley's Montana Company, 2099  
 National Cylinder Gas, 2813  
 Northside Lumber & Coal Yard 3271  
 Northwest Fixture Company, 2542  
 Northwest Plating Company, 3471  
 Nyes Dairy, Inc., 2024, 2026  
 Barry O'Leary, Inc., 3273, 3295  
 Olson's Machine & Welding, 3591  
 Paganini Concrete Products, 3271  
 Peavey Company, 2041  
 Pepco-Chemical, 2952  
 Pepsi-Cola Bottling Co., 2086  
 Peterson Print Shop, 2751  
 Pierce Packing Company, 20 1  
 Propp & Baumgart, 2011  
 Quality Control Lab., 2899  
 Quality Millwork & Manufacturing Co., 2431  
 Reliable Tent & Awning Co., 2394  
 Reporter Printing & Supply, 2751  
 Reymer Machine Company, 3591  
 Rocky Mountain Furniture Co. Inc., 2511  
 Rolling Pin Bake Shop, 2051  
 Roscoe Steel & Culvert Company, 3444  
 Russell Sheet Metal Co., 3444, 3791  
 Rynker Steel Products Co., 3433  
 The Seat Cover Center Inc., 2399  
 Seven-Up Bottling Co. of Billings, 2086  
 Snyder Venetian Blind Company, 2591  
 Supreme Bakers, 2052

Sweetheart Bread Company, 201  
 Taste-T Bakery, 2051  
 Telvox Inc. Sound Devices Mfg. Co. 1651, 3662  
 Thompson Dairy Company Inc. 2026  
 Trott Printing Co. 2751  
 United Prestressed Inc., 3272  
 Uiel Manufacturing Company, 3551  
 Waltham Products Co., Inc., 2842  
 Western Litho-Print Inc. 2752  
 Western Livestock Reporter, 2711, 2751  
 John Wight, Inc. 2911  
 Wilcoxson's Ice Cream Co., 2024, 2071  
 Winchell Central Sheet Metal Works, Inc., 3444  
 Yellowstone Glass Co. 3231  
 Yellowstone Heating & Cooling, Inc., 3443  
 Yellowstone Hydraulics & Machine, Inc., 3537  
 Yellowstone Quality Chekd Dairy, 2024 2026, 2086  
 E. R. Young Company Inc., 3442

It's the people who count . . . people who make the plans possible, productive and profitable.

Montana's people are interested in you. Sam Chapman, director of the Montana State Planning Board, works with these people to offer opportunities to new industries.

Together with its people, Montana has an abundance of natural resources, modern new industries, a stimulating climate, a summer and winter playground, and excellent educational facilities and hundreds of friendly communities.

If you are interested in the prosperity and potential of Montana, write the Montana State Planning Board.



## businessmen . . .

Montana businessmen are aware of how important new industry is to the economic development of the state.

These businessmen, along with Chambers of Commerce, and the State Planning Board, will assist in securing plant locations or in the erection of buildings.

Many farsighted Montana communities have zoned industrial parks and have sites available for development. Several communities have industrial development corporations with investment capital available for sound projects.

Through the state-wide effort capital investments have averaged \$20 million per year. In 1962 the total exceeded \$50 million.



## skilled labor . . .

Montana has an available source of skilled labor. More of Montana's labor force have been shifting from agriculture and mining to manufacturing.

Montana's labor is not only competitive on a rate basis, but it is more than competitive on a productivity basis. This is because the Montana workman is above average in education. Furthermore, a large portion has ranch or farm backgrounds and are therefore mechanically inclined, adaptable, dependable and self-reliant. The Montana laborer is happy in his surroundings as a result of all the benefits derived from living in Montana.



## educated youth . . .

One of Montana's greatest resources lies in its educated youth found on our college campuses and in the research laboratories.

The six units of the State University System with campuses at Bozeman, Missoula,

Butte, Billings, Havre and Dillon offer curricula leading to degrees in nearly all professions. Montana's excellent private colleges are located at Billings, Great Falls and Helena.

Both state and private schools in Montana offer advanced courses in technical studies enabling industry's technical personnel to continue their education.

Organized research is carried on at the institutions of higher learning, government agencies, and private business organizations. Some of this research has been directly responsible for new industry in Montana.



## PART THREE

# Standard Industrial Code Classification

## MAJOR GROUP 19—ORDNANCE AND ACCESSORIES

### 195 SMALL ARMS

#### 1951 Small Arms

##### Kalispell

**Hall Sharon.** 643 Meridian Road. Rifle and Pistol barrels. Brand name "Sharon Rifle Barrels."

##### Philipsburg

**The Rifle Shop.** William Hobough. Rifle barrels

## MAJOR GROUP 20 — FOOD AND KINDRED PRODUCTS

### 201 MEAT PRODUCTS

#### 2011 Meat Packing Plants

##### Billings

**Midland Empire Packing Co., Inc.** Box 1375. Carl Crosser, President. Custom slaughtering and cured meats.

**Pierce Packing Company.** 21 North 15th Street. Clark P. Pierce, president. Meat packing plant.

**Propp & Baumgard.** 2640 King Avenue, Box 149. Gilbert Propp and Fred Baumgard. Slaughtering and custom cutting, wrapping and quick freezing.

##### Bozeman

**Clean Cut Meats.** Route 1. Fred Happel and Arnold Happel. Custom meat processing and curing.

**Vollmer & Sons, Inc.,** Box 723. J. H. Vollmer, Jr., manager. Meat packing plant.

##### Butte

**Biaslock Meats.** Hanson Road. Curt Biaslock, president. Meat packing plant.

**New Butte Butchering Co.,** 1201 Centennial Ave. Harold Schumacher, manager. Meat packing plant. Brand name "Schumacher and Sportsman."

**Sigman Meat Co., Inc.,** Box 1930. Ron Nunes, manager. Meat packing plant. Brand names "Sigman Brand," and "Gold Nugget."

##### Conrad

**Conrad Packing Co.** Roger Thielman, manager. Cured meats and custom slaughtering.

##### Dillon

**Roberts Livestock and Packing.** South of Dillon. Meat packing plant. Wieners, bologna and all cured meats. Custom slaughtering. Brand name "Roberts Meats."

##### Fort Benton

**Fort Benton Locker — Meats.** 1522 Front. Claire Sykes, manager. Custom butchering. Packaging fresh and frozen fish. Listed under Industry No. 2036.

##### Glasgow

**Austin Packing Co.,** Box 1048. A. L. Austin, manager. Custom slaughtering and cured meats. Brand name "Austin's Meats."

##### Great Falls

**Barsotti Bros. Meat Packing Co.,** 1800 Fourth Avenue No. Maurice Barsotti. Processes meat products.

**Berger Meat Co., Inc.,** 315 1st Avenue South. Robert Mathias, manager. Processes meat products.

**Great Falls Meat Company,** 3528 8th Avenue South. H. P. Brown. Custom slaughtering and cured meats. Brand name "Rainbow Brand."

**Mickey's Packing Plant.** Gibson Flat. Meat packing plant.

**Needham Packing Company of Montana,** 2121 8th Ave. South. William Needham, manager. Custom slaughtering and cured meats. Brand name "Needham Packing Company of Montana."

##### Hamilton

**Rasmussen's Slaughter House,** Box 651. Harley Rasmussen, manager. Custom slaughtering and cured meats.

**Tolman Meat Processing Plant.** Box 413. Marvin R. Tolman, manager. Custom slaughtering and cured meats.

##### Hardin

**Bud's Locker & Freezer.** Bud Novak, owner. Custom butchering. Sausage. Listed under Industry No. 2013.

**Hardin Market.** Joe and Dan Zeiler, owners. Process meat. Sausage. Listed under Industry No. 2013

##### Havre

**Krezelaks, Inc.,** Box 911. Paul Krezelak, owner. Meat packing plant

**Rocky Mountain Packing Co., Inc.,** Box 670. George L. Gibson, manager. Meat packing plant. Brand name "Rocky Mountain Brand."

##### Helena

**Montana Meat Company, Inc.,** Box 1683. J. E. Larson, president. Custom slaughtering and cured meats. Brand name "Placer Gold Brand." "Big Sky Brand."

##### Kalispell

**Circle K Packing.** Box 674. Clifford Matuel, general manager. Commercial slaughtering.

##### Lewistown

**Big Sky Packing Company.** Hilger Road. Ernie W. Maier, Jr., manager. Custom slaughtering and cured meats.

**Snowy Mountain Meat Co.,** 612 First Avenue South. Filip Kurz, manager. Custom slaughtering and cured meats.

##### Livingston

**Quick Freeze Packing Co.** John W. Ricks, owner. Custom meat processing.

##### Miles City

**Anderson's Frozen Foods, Inc.,** 713 Knight. Herman Anderson. Process meat and custom cutting.

**Miles City Packing Co.,** Box 936. W. F. Munsell, proprietor. Beef butchering. By-products, hides and tallow. Listed under Industrial No. 2094.

##### Missoula

**John R. Daily, Inc.,** 115 West Front. K. R. Schwanke, president and general manager. Meat packing plant. Brand name "Daily's."

**Missoula Creamery & Cold Storage Co.,** 707 East Front Street. Eugene Graybeal and wife, co-owners. Processing meat. Manufacture ice. Listed under Industry No. 2097

**Schramm Packing Company,** Route 2 Raser Road. Ross Snider, manager. Meat packing plant

**Western Meat Packers, Inc.** Meat packing plant

##### Ronan

**Lockwood Lockers.** Floyd Lockwood, manager. Custom slaughtering.

##### Roundup

**Seitz & Bowers Processing.** Albert Seitz and Ben Bowers. Meat packing plant.

##### Shelby

**J.H. Meat Company,** Star Route. Joe Hawkins, owner. Custom slaughtering and cured meats

**Marias Packing Company.** Harvey Nelson and Bob Hasquet. Custom slaughtering and cured meats.

##### Sidney

**Valley Meat Packing Co.,** Box 767. Nick Hansen, president. Custom slaughtering and cured meats.

##### Stevensville

**Scrugg's Slaughter House.** Vaden Scruggs, manager. Custom slaughtering and cured meats.

**Livergood Meat Market & Storage Lockers.** Russell Livergood, manager. Custom slaughtering and cured meats.

##### Townsend

**Green's Processing Plant.** Lewis Green, owner. Custom slaughtering and cured meats.

##### Wolf Point

**City Meat Co.** Art Kurokawa, manager. Custom butchering, freezing and storing of meats.

## 2013 Sausages and Other Prepared Meat

### Products

#### Great Falls

**Hickory Kitchen.** 1007 10th Ave. S. W. Richard Cosgrove, manager. Sausage products, fresh and smoked, bologna, salami, franks, lunch meats, etc. Brand name "Hickory Kitchen."

#### Hardin

**Bud's Locker & Freezer.** Bud Novak, owner. Custom butchering and manufacture of sausage. Listed under Industry No. 2011.

**Hardin Market.** Joe and Dan Zeiler, owners. Process meat and sausage. Listed under Industry No. 2011.

#### Kalispell

**Sykes Grocery & Market.** 202 2nd Ave. West. Doug Wise. Sausage products.

#### Missoula

**Christensen's Wholesale Meats.** 126½ Davis Street. Mrs. Gladys E. MacKey, co-owner. Process of meats and cuts.

**D & H Wholesale Meats.** Highway 10 West. Bill Hainline, Sr., president. Process of meats and cuts.

**2015 Poultry and Small Game Dressing and Packing, Wholesale**

**Dillon**

**Elsie Laden.** Produce and handle turkeys.

**Hardin**

**Jack Helmann.** Process poultry.

**202 DAIRY PRODUCTS**

**2021 Creamery Butter**

**Anaconda**

**Deer Lodge Creamery.** 300 East 3rd Ave. Frank Irvine owner. Manufactures butter, ice cream, fluid milk. Listed under Industry Nos. 2024 and 2026.

**Belgrade**

**Belgrade Creamery.** Box 25. Martin A. Nelson, manager. Manufactures butter and ice cream. Listed under Industry No. 2024.

**Big Timber**

**Sweet Grass Creamery.** Arne and Clarence Petoja. Manufactures butter, ice cream, fluid milk and cottage cheese. Brand name "Sweet Grass." Listed under Industry Nos. 2024 and 2026.

**Billings**

**Beatrice Foods Company.** 109 South Broadway. Jerry Sullivan, manager. Manufactures butter, ice cream and fluid milk. Brand name "Meadow Gold." Listed under Industry Nos. 2024 and 2026.

**Bozeman**

**Darigold Farms.** 1001 North 7th. Harold W. Goble, manager. Manufactures butter, cheese, ice cream and fluid milk. Brand name "Darigold." Listed under Industry Nos. 2022, 2024 and 2026.

**Butte**

**Crystal Creamery.** 301 South Main. Robert Sherman, Montana plant manager. Manufactures butter, cheese, ice cream and fluid milk. Brand names "Madison," "Beaverhead Gold," "Crystal," and "Challenge." Listed under Industry Nos. 2022, 2024 and 2026.

**Treasure State All Star.** 1539 A Street. James Huggins, manager. Produces butter and fluid milk. Listed under Industry No. 2026.

**Chinook**

**Milk River Creamery.** Box 296. R. B. Doughton, owner. Produces butter and ice cream. Brand name "Liberty." Listed under Industry No. 2024.

**Choteau**

**Superior Dairy.** Max Hanson, manager. Produces butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**Columbus**

**Columbus Creamery.** Produces butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**Culbertson**

**Moore Dairy.** Mark E. Moore, owner. Produces butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**Dillon**

**Upper Snake Valley Dairy.** Box 446. Wayne Myers, manager. Produces butter, ice cream and fluid milk. Brand name "Challenge Products." Listed under Industry Nos. 2024 and 2026.

**Hamilton**

**Ravalli County Creamery.** John Howe, manager. Produces butter, cheese and ice cream. Brand name "Howe's." Listed under Industry Nos. 2022 and 2024.

**Hardin**

**Jersey Creamery, Inc.,** 423 N. Center Avenue. Ray E. Perryman, owner. Produces butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**Havre**

**Glacier Trail Creamery.** 7 West 2nd Street. Harvey Parsons, manager. Produces butter and ice cream. Brand name "Glacier Trail." Listed under Industry No. 2024.

**Kalispell**

**Skyline Dairy.** Route 3, Box 123. Glen Hartman and Roscoe Kaufman. Produces butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**Livingston**

**Connelley's Livingston Creamery.** 422 South 2nd. E. M. Connelley, president. Produces butter, ice cream and milk. Brand name (butter) "Better Yet." Listed under Industry Nos. 2024 and 2026.

**Farmers Creamery, Inc.,** 113 East Lewis. Arnold N. Hellesmark. Produces butter, ice cream and fluid milk. Brand names (butter) "Golden Rod," (ice cream) "Delicious."

**Lewistown**

**Lewislow Creamery Co.,** Box 537. Mike Simonfy, manager. Produces butter, ice cream and fluid milk. Brand name "Lewtana." Listed under Industry Nos. 2024 and 2026.

**Malta**

**Meadow Valley Creamery.** Box 956. Einar Olson, manager. Produces butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**Manhattan**

**Manhattan Creamery.** Bruce Botchelder. Produces butter and fluid milk. Listed under Industry No. 2026.

**Miles City**

**Sanitary Dairy.** 201 South 7th Street. Roy W. Carlson, president. Produces butter, fluid milk and cottage cheese. Brand name "Sanitary Dairy." Listed under Industry No. 2026.

**Missoula**

**Brookside Dairy.** 1843 Cannon. M. R. Kraut, president. Produces butter, ice cream and fluid milk. Brand name "Brookside." Listed under Industry Nos. 2024 and 2026.

**Ronan**

**Consolidated Dairies of Lake County, Inc.,** Box A. Floyd R. Olson, manager. Process butter, cheese, ice cream and fluid milk. Brand name "Darigold." Listed under Industry Nos. 2022, 2024 and 2026.

**Sidney**

**Sidney Locker & Creamery Co.,** Box 791. Ted Jensen, general manager. Processes "Richland" butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**Townsend**

**Broadwater Creamery.** C. L. Hicks, manager. "Primrose" butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**Wolf Point**

**Rothe's Dairy.** Box 156. T. M. Rothe, owner. Produces butter, ice cream and fluid milk. Listed under Industry Nos. 2024 and 2026.

**2022 Natural Cheese**

**Bozeman**

**Darigold Farms.** 1001 North 7th. Harold W. Goble, manager. Processes "Darigold" butter, cheese, ice cream and fluid milk. Listed under Industry Nos. 2021, 2024 and 2026.

**Butte**

**Crystal Creamery.** 301 South Main. Robert Sherman, Montana plant manager. Processes butter, cheese, ice cream and fluid milk under brand names "Madison," "Beaverhead Gold," "Crystal" and "Challenge." Listed under Industry Nos. 2021, 2024 and 2026.

**Gallatin Gateway**

**Glacier Mountain Cheese Co.** H. C. Heap & Sons. Processes cheese.

**Hamilton**

**Ravalli County Creamery.** John Howe, manager. Produces "Howe's" butter, cheese and ice cream. Listed under Industry Nos. 2021 and 2024.

**Ronan**

**Consolidated Dairies of Lake County, Inc.,** Box A. Floyd R. Olson, manager. Processes "Darigold" butter, cheese, ice cream and fluid milk. Listed under Industry Nos. 2021, 2024 and 2026.

**Stevensville**

**Foremost Dairies, Inc.** Bud Summers, manager. Processes "Foremost" cheese.

**Whitehall**

**Glacier Mountain Cheese Co.,** 315 East Legion. C. J. Heap, manager. Processes cheddar, Swiss, Monterey, caraway, blue, provolone cheeses and Christmas package assortments.

**2024 Ice Cream and Frozen Desserts**

**Anaconda**

**Deer Lodge Creamery.** 300 East 3rd Ave. Frank Irvine, owner. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

**Belgrade**

**Belgrade Creamery.** Box 25. Martin A. Nelson, manager. Processes butter and ice cream. Listed under Industry No. 2021.

**Big Timber**

**Sweet Grass Creamery.** Arne and Clarence Petoja. Processes "Sweet Grass" butter, ice cream, fluid milk and cottage cheese. Listed under Industry Nos. 2021, 2026.

**Billings**

**Beatrice Foods Company.** 109 South Broadway. Jerry Sullivan, manager. Processes butter, ice cream and fluid milk. Brand name "Meadow Gold." Listed under Industry Nos. 2021 and 2026.



**Nye's Dairy, Inc.,** 910 Poly Drive, Leila L. Nye, president. Processes ice cream and fluid milk. Listed under Industry No. 2026.

**Wilcoxson's Ice Cream Co.,** 114 North 19th Street. Harold Wilcoxson, president. Manufactures ice cream and candy. Listed under Industry No. 2071.

**Yellowstone Quality Chekd Dairy,** 901 Terry Ave. Arnold Kessler, general manager. Processes ice cream, fluid milk, cottage cheese, sour cream, buttermilk, orange and grape drinks under brand name "Yellowstone Quality Chekd." Listed under Industry Nos. 2026 and 2086.

#### Bozeman

**Best Dairy Forms,** 803 North Wallace. William E. Anderson, manager. Processes ice cream and fluid milk, brand name "Yellowstone Quality Chekd." Listed under Industry No. 2026.

**Darigold Farms,** 1001 North 7th. Harold W. Goble, manager. Processes butter, cheese, ice cream and fluid milk. Listed under Industry Nos. 2021, 2022 and 2026. Brand name "Darigold."

**Lehrkinds Ice Cream,** 25 S. Tracy. Herman A. Lehrkind, owner. Manufactures ice cream, brand name "Lehrkinds."

#### Butte

**Blanchard Ice Cream Co.,** 750 So. Wyoming. Frank Irvin, manager. Manufactures ice cream.

**Crystal Creamery,** 301 So. Main. Robert Sherman, Montana plant manager. Processes butter, cheese, ice cream and fluid milk under brand names "Madison," "Beaverhead Gold," "Crystal" and "Challenge." Listed under Industry Nos. 2021, 2022 and 2026.

**Lolly Rings,** 510 South Excelsior. Vincent Barry, owner. Manufactures ice cream, lolly rings and bors. Listed under Industry No. 2071.

**Western Refrigeration,** 750 So. Wyoming. Clifford Hirsch, manager. Manufactures ice cream and ice. Listed under Industry No. 2097.

#### Chinook

**Milk River Creamery,** Box 296. R. B. Doughton, owner. Manufactures "Liberty" butter and ice cream. Listed under Industry No. 2021.

#### Choteau

**Superior Dairy,** Max Hanson, manager. Manufactures butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Columbus

**Columbus Creamery,** Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Culbertson

**Moore Dairy,** Mark E. Moore, owner. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Dillon

**The Big Dipper,** 18 So. Montana. John M. Harr, proprietor. Manufactures ice cream.

**Upper Snake Valley Dairy,** Box 446. Wayne Myers, manager. Manufactures "Challenge Products" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Great Falls

**Beatrice Foods Co.,** 312 3rd Ave. South. John Connors, manager. Manufactures ice cream, fluid milk, cottage cheese and buttermilk. Listed under Industry No. 2026.

#### Hamilton

**Ravalli County Creamery,** John Howe, manager. Processes butter, cheese and ice cream. Brand name "Howe's." Listed under Industry Nos. 2021 and 2022.

#### Hardin

**Jersey Creamery, Inc.,** 423 N. Center Ave. Ray E. Perryman, owner. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Havre

**Glacier Trail Creamery,** 7 W. 2nd St. Harvey Parsons, manager. Processes butter and ice cream. Brand name "Glacier Trail." Listed under Industry No. 2021.

**Vita Rich Dairy, Inc.,** Box 769. Ralph J. Anderson, president. Processes ice cream and milk. Brand name "Vita-Rich." Listed under Industry No. 2026.

#### Helena

**Clover Leaf Dairy,** 617 Helena Ave. Peter J. McHugh, president. Processes ice cream and fluid milk. Listed under Industry No. 2026.

**Dairyland Wholesale,** 356 N. Jackson. Ted Olson, president. Manufactures ice cream and ice cream novelties. Brand names "Dairy Freeze" and "Dairyland."

#### Kalispell

**Skyline Dairy,** Route 3, Box 123. Glen Hartman and Roscoe Kaufman. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Lewistown

**Lewistown Creamery Co.,** Box 537. Mike Simonty, manager. Processes "Lewtana" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Livingston

**Connelley's Livingston Creamery,** 422 So. 2nd. E. M. Connelley, president. Processes "Better Yet" butter, ice cream and milk. Listed under Industry Nos. 2021 and 2026.

**Farmers Creamery, Inc.,** 113 E. Lewis. Arnold N. Hellesmark. Processes "Golden Rod" butter, "Delicious" ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

**Wilcoxson's, Inc.,** 314 So. Main. Joe Ruegg. Manufactures ice cream and "Wilcoxson's" candy. Listed under Industry No. 2071.

**Yellowstone Quality Chekd Dairy,** 110 North N Street. Bill and John Anderson. Processes "Yellowstone Quality Chekd" ice cream and fluid milk. Listed under Industry No. 2026.

#### Malta

**Meadow Valley Creamery,** Box 956. Einar Olson, manager. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Miles City

**Penguin Ice Cream Shop,** 1110 Main. Ray Lundby, proprietor. Manufactures "Super Creamed" ice cream.

#### Missoula

**Brookside Dairy,** 1843 Connon. M. R. Kraut, president. Processes "Brookside" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

**Community Creamery,** 420 Nora. Dick Chisholm, manager. Processes ice cream and fluid milk. Listed under Industry No. 2026.

**Hansen's Ice Cream,** 519 S. Higgins. Ralph Hansen, partner. Manufactures "Hansen's Famous Ice Cream" and frozen novelties.

**Medo-Land Dairies,** 2600 So. 3rd West. H. A. Searles, president. Processes "Medo-Land Quality Chekd" ice cream, fluid milk and bottled mix. Listed under Industry Nos. 2026 and 2086.

#### Ronan

**Consolidated Dairies of Lake County, Inc.,** Box A. Floyd R. Olson, manager. Processes "Darigold" butter, cheese, ice cream and fluid milk. Listed under Industry Nos. 2021, 2022 and 2026.

#### Sidney

**Sidney Locker & Creamery Co.,** Box 791. Ted Jensen, general manager. Processes "Richland" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Townsend

**Broadwater Creamery,** C. L. Hicks, manager. Processes "Primrose" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Wolf Point

**Rothe's Dairy,** Box 156. T. M. Rothe, owner. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

### 2026 Fluid Milk and Related Products

#### Anaconda

**Deer Lodge Creamery,** 300 E. 3rd Ave. Frank Irvine, owner. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2026.

#### Big Timber

**Sweet Grass Creamery,** Arne and Clarence Petaja. Processes "Sweet Grass" butter, ice cream, fluid milk and cottage cheese. Listed under Industry Nos. 2021 and 2024.

#### Billings

**Beatrice Foods Co.,** 109 So. Broadway. Jerry Sullivan, manager. Processes "Meadow Gold" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

**Nye's Dairy, Inc.,** 910 Poly Drive. Leila L. Nye, president. Processes ice cream and fluid milk. Listed under Industry No. 2024.

**Thompson Dairy Co., Inc.,** 807 No. 24th St. R. Sterling Thompson, president. Processes fluid milk.

**Yellowstone Quality Chekd Dairy,** 901 Terry Ave. Arnold Kessler, general manager. Processes "Yellowstone Quality Chekd" ice cream, fluid milk, cottage cheese, sour cream, buttermilk and orange and grape drinks. Listed under Industry Nos. 2024 and 2086.

#### Bozeman

**Best Dairy Farms,** 803 No. Wallace. William E. Anderson, manager. Processes "Yellowstone Quality Chekd" ice cream and fluid milk. Listed under Industry No. 2024.

**Darigold Farms,** 1001 No. 7th. Harold W. Goble, manager. Processes "Darigold" butter, cheese, ice cream and fluid milk. Listed under Industry Nos. 2021, 2022 and 2024.

#### Butte

**Crystal Creamery,** 301 So. Main. Robert Sherman, Montana plant manager. Processes "Madison," "Beaverhead Gold," "Crystal" and "Challenge" butter, cheese, ice cream and fluid milk. Listed under Industry Nos. 2021, 2022 and 2024.

**Rack Springs Dairy,** Star Route. Guido Cerise, manager. Processes fluid milk.

**Racky Mountain Dairy,** Continental Drive. Richard J. Simon. Processes fluid milk.

**South Side Dairy.** South of Butte. Martin Lisac. Processes fluid milk.

**Sun Kist Dairy.** Elk Park. Sivenno Galetti, owner. Processes fluid milk.

**Treasure State All Star.** 1539 A Street. James Huggins, manager. Processes butter and fluid milk. Listed under Industry No. 2021.

#### Choteau

**Superior Dairy.** Max Hanson, manager. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Columbus

**Columbus Creamery.** Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Culbertson

**Moore Dairy.** Mark E. Moore, owner. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Dillon

**Upper Snake Valley Dairy.** Box 446. Wayne Myers, manager. Processes "Challenge Products" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Great Falls

**Ayrshire Dairy, Inc.,** So. of Great Falls. Fergus G. Mitchell, president. Processes "Ayrshire Dairy" fluid milk and cottage cheese.

**Beatrice Foods Co.,** 312 3rd Ave. South. John Connors, manager. Processes ice cream, fluid milk, cottage cheese and buttermilk. Listed under Industry No. 2024.

**Hansen's All Star Dairy,** 1204 7th St. South. Robert Hansen. Processes "All Star" fluid milk and cottage cheese.

#### Hardin

**Jersey Creamery, Inc.,** 423 No. Center Ave. Ray E. Perryman, owner. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Harlowton

**Harlo Creamery & Jersey Dairy,** Box 281. Robert E. Williams, manager. Processes fluid milk.

#### Havre

**Vita Rich Dairy, Inc.,** Box 769. Ralph J. Anderson, president. Processes "Vita Rich" ice cream and milk. Listed under Industry No. 2024.

#### Helena

**Clover Leaf Dairy.** 617 Helena Ave. Peter J. McHugh, president. Processes ice cream and fluid milk. Listed under Industry No. 2024.

**Phillips Dairies, Inc.,** Route A. Processes "Phillips Quality Chekd" fluid milk.

#### Kalispell

**Meridian Dairy,** 202 Meridian Road. Clinton Houston, manager. Processes fluid milk.

**Skyline Dairy,** Route 3, Box 123. Glen Hartman and Roscoe Kaufman. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Lewistown

**Lewistown Creamery Co.,** Box 537. Mike Simonfy, manager. Processes "Lewtana" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Livingston

**Connelley's Livingston Creamery,** 422 So. 2nd E. M. Connelley, president. Processes "Better Yet" butter, ice cream and milk. Listed under Industry Nos. 2021, 2024.

**Farmers Creamery, Inc.,** 113 E. Lewis. Arnold N. Hellesmark. Processes fluid milk, "Golden Rod" butter, and "Delicious" ice cream. Listed under Industry Nos. 2021 and 2024.

**Yellowstone Quality Chekd Dairy,** 110 North N St. Bill and John Anderson. Processes "Yellowstone Quality Chekd" ice cream and fluid milk. Listed under Industry No. 2024.

#### Malta

**Meadow Valley Creamery,** Box 956. Einar Olson, manager. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Manhattan

**Manhattan Creamery.** Bruce Batchelder. Processes butter and fluid milk. Listed under Industry No. 2021.

#### Miles City

**Sanitary Dairy.** 201 So. 7th St. Roy W. Carlson, president. Processes "Sanitary Dairy" butter, fluid milk and cottage cheese. Listed under Industry No. 2021.

#### Missoula

**Brookside Dairy,** 1843 Cannon. M. R. Kraut, president. Processes "Brookside" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

**Community Creamery,** 420 Nora. Dick Chisholm, manager. Processes ice cream and fluid milk. Listed under Industry No. 2024.

**Medo-Land Dairies,** 2600 So. 3rd West. H. A. Searles, president. Processes "Medo-Land Quality Chekd" ice cream, fluid milk and bottled mix. Listed under Industry Nos. 2024 and 2086.

#### Ronan

**Consolidated Dairies of Lake County, Inc.,** Box A. Floyd R. Olson, manager. Processes "Darigold" butter, cheese, ice cream and fluid milk. Listed under Industry Nos. 2021, 2022 and 2024.

#### Sidney

**Sidney Locker & Creamery Co.,** Box 791. Ted Jensen, general manager. Processes "Richland" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Townsend

**Broadwater Creamery.** C. L. Hicks, manager. Processes "Primrose" butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

#### Wolf Point

**Rothe's Dairy.** Box 156. T. M. Rothe, owner. Processes butter, ice cream and fluid milk. Listed under Industry Nos. 2021 and 2024.

### 203 CANNING AND PRESERVING FRUITS, VEGETABLES AND SEA FOODS

#### 2031 Canned and Cured Sea Foods

##### Livingston

**Paradise Rainbows.** Hoffman Route. Processes canned trout and fresh packed trout. Listed under Industry No. 2036.

#### 2033 Canned Fruits, Vegetables, Preserves, Jams and Jellies

##### Bigfork

**Eva Gates Homemade Preserves.** George & Eva Gates. Processes canned preserves, jams and jellies.

##### Billings

**Big Horn Canning Company.** 1401 4th Ave. North. Processes peas, green beans, wax beans, corn, carrots, beef, pumpkin, pork and beans. Brand names "Bigwig," "Cutter," "Forest Pride," "Lovell" and "Old Yellowstone."

##### Hamilton

**Bitter Root Cannery.** John Parker, manager. Processes canned berries and cherries. Brand name "Bitter Root."

##### West Glacier

**Montana House,** Box 4. Hans Jungster. Processes jams and jellies, candles, and evergreen wreaths. Listed under Industry Nos. 3984 and 3999.

#### 2036 Fresh or Frozen Packaged Fish

##### Fort Benton

**Fort Benton Locker & Meats,** 1522 Front. Claire Sykes, manager. Custom butchering; packaging fresh and frozen fish. Listed under Industry No. 2011.

##### Havre

**Calahams Market,** 339 4th Ave. Marvin Calahan, manager. Packages fresh and frozen fish.

##### Kalispell

**Glacier Wholesalers,** 76 4th Ave. W. N. Jack Lebert and Fred Tri. Processes fresh and frozen packaged fish.

##### Livingston

**Paradise Rainbows.** Hoffman Route. Processes canned trout and fresh packed trout. Listed under Industry No. 2031.

##### St. Ignatius

**Harriman Trout Co., Inc.,** Box 147. David Harriman, manager. Processes live trout and eggs.

#### 2037 Frozen Fruits, Vegetables, Juices and Specialties

##### Missoula

**Pioneer Bake "N" Serve,** 1001 So. 4th West. Frank E. Black, president. Manufactures frozen bread dough.

### 204 GRAIN MILL PRODUCTS

#### 2041 Flour and Other Grain Mill Products

##### Billings

##### PEAVEY COMPANY

###### Flour Mills

3601 1st Ave. South. H. E. Kuehn, president. Produces enriched family flour, pancake and waffle mix, bakers patent flour, whole wheat flour, pastry flour, cake flour, bakery mixes. Brand names "Occident," "Snow White," "White Spray," and "American Beauty."

##### Great Falls

**General Mills, Inc.,** 511 Ford Bldg. Thomas Lee, manager. Produces flour, (wheat germ and farina), poultry feed and animal "Rex" feed. Brand names (flour) "Gold Medal," "Puritasnow," "Rex Flour," "Montana King Bakers Flour,"



and "Goliath Flour." Listed under Industry No. 2042.  
**Montana Flour Mills Co.**, 900 16th St. North. Charles G. McClave, president. Produces "Sapphire" brand flour.

#### Missoula

**Montana Flour Mills**, 909 So. 3rd West. C. R. MacIave, president. Produces flour and "Ceretana" mixing and pelletizing feeds. Listed under Industry No. 2042.

### 2042 Prepared Feeds for Animals and Fowls

#### Belgrade

**Belgrade Alfalfa Products**, J. E. Cummings and Ray Kumpf. Produces "Sun Cured" and "Delty" alfalfa pellets.

#### Billings

**Midland Feed Co.**, Box 1457. Norman Trask, president. Produces custom blended animal feeds.

#### Bozeman

**Bon Ton Inc. of Billings**, 615 No. Wallace. Eugene Graf, Jr., manager. Produces prepared feeds for animals and fowls.  
**Teslow, Inc.**, 901 Wallace Ave. Richard M. Teslow, president. Custom mixing and pelletizing of "Misco" animal feeds.

#### Butte

**K-T Liqui Feed Co.**, Box 552. Torger L. Oaas, manager. Manufactures "Morea" liquid feed for livestock.

#### Chinook

**Milk River Elevator Co.**, G. T. Westin, president. Custom mixing and pelletizing of "Ceretana" feed

#### Choteau

**Montana Mineral Feed Co.**, W. E. Whealy, manager. Blending of custom feed.

#### Conrad

**O & K Feeds Service**, George Knobel, owner-manager. Prepares livestock feeds, and custom grinding and blending of feeds.

#### Culbertson

**Pacific Vegetable Oil Corp.**, Box 98. Curtis Halseide, manager. Produces safflower oil, PVO safflower pellets, and PVO safflower meal. Listed under Industry No. 2096.

#### Dillon

**Teslow, Inc.**, 211 No. Montana. Red Kamps, manager. Custom mixing and pelletizing of "Purina" livestock feeds.

**Williams Feed, Inc.**, 235 No. Idaho. D. H. Williams, president. Custom mixing and pelletizing of "Williams" livestock feeds.

#### Fairfield

**Fairfield Seed & Feed**, Borden Wall, manager. Blending of custom feed.

**GTA Elevator**, Blending of animal feed and rolling mill.

#### Forsyth

**Farmers Union G.T.A. Line Elevator**, Prepares feeds for animals and fowls.

#### Glasgow

**Occident Elevator Co.**, Conrad Peterson, manager. Custom blends animal pellets.

#### Great Falls

**General Mills, Inc.**, 511 Ford Bldg. Thomas Lee, manager. Produces flour (wheat germ and farinal), poultry feed and

corn. "Rex" feed. Brand names (flour) "Gold Medal," "Purina," "Rex Flour," "Montana King Bakers Flour," and "Goliath Flour." Listed under Industry No. 2041.

**Montana Rendering Co.**, SE of Great Falls. Bill Needham, Produces tallow and meat meal for livestock feed. Listed under Industry No. 2094.

#### Hamilton

**Ravalli Seed & Grain Co.**, Paul Tschache, manager. Custom rolling and blending of animal feeds.

#### Harlowton

**Furgason Feed Mill, Inc.**, Box 925. Leon Furgason, manager. Custom mixing and pelletizing of "Furgason Perfect Balance Feeds."

#### Havre

**Farmers Grain Exchange**, Box 990. Lloyd Carlson, manager. Produces "Chow-Mix" feeds for animals and fowls.

#### Helena

**Montana Animal Products Co.**, Box 1683. J. Einar Larson, president. Produces "H. W. Meat Meal" animal food supplement.

#### Lewistown

**Central Feed Co.**, Box 979. Alton Cook, manager. Custom mixing and pelletizing of livestock feeds.

#### Malta

**Phil-Co Feed and Seed**, Dick Voght, manager. Custom mixing and pelletizing of livestock feeds.

#### Miles City

**George C. Bagley Elevator Co.**, 511 No. 7th St. Lynn Clendenen, manager. Custom feed grinding.

**Peavy Elevator Co.**, 512 No. 7th St. D. C. Camrath, plant manager. Produces "Peavy Feeds" range pellets, grain rolling. Parent Co. Russell Miller Milling Co., Minneapolis, Minnesota.

#### Missoula

**Montana Flour Mills**, 909 So. 3rd West. C. R. MacIave, president. Produces flour and mixes and pelletizes feeds. Brand name "Ceretana Feed."

#### Saco

**Saco Alfalfa Products, Inc.**, Box 268. Darrell Menge, president. Custom mixing and pelletizing.

#### Stevensville

**Stevensville Feed & Fuel Co.**, Dayton Lockridge, manager. Custom blending and pelletizing of "Purina" livestock feeds.

#### Townsend

**Teslow, Inc.**, Dean Frolander, manager. Grinding and custom blending of animal feeds.

### 2043 Cereal Preparations

#### Billings

**Montana Cereal Co.**, 3523 1st Ave. South. Dave Coon, Jr., president. Produces "Cream of the West" cereal.

### 2046 Wet Barley Milling

#### Conrad

**Sunburst Biochemical Co.**, LeRoy Anderson, manager. Produces molasses and yeast, and starch from barley. Listed under Industry No. 2099.

### 205 BAKERY PRODUCTS

### 2051 Bread and Other Bakery Products, Except

#### Biscuits, Crackers and Pretzels

#### Anaconda

**Gamers Bakery**, 216 E. Commercial Ave. Produces bread and other bakery products.

**Home Bakery**, 412 E. Park. John Wind, manager. Produces bread and other bakery products.

#### Big Timber

**Big Timber Bakery**, 223 McLeod. Jim Thompson, proprietor. Produces bread and other bakery products.

#### Billings

**Eddy's Bakery**, 711 4th Avenue No. Charles Keehn, superintendent. Produces bread and other bakery products.

**Ideal Bakery**, Box 1262. Eugene Lisso, manager. Produces bread and buns.

**Rolling Pin Bake Shop**, 3021 3rd Ave. No. J. E. Shultz and Frank F. Coronci. Produces bread and other bakery products.

**Sweetheart Bread Co.**, 116 No. 30th, Box 1177. John R. Dow, president. Produces bread and other bakery products.

**Taste-T-Bakery**, 2557 Broadwater Ave. Harold H. Hoy. Makes pastries.

#### Bozeman

**Berton's Bakery**, 42 W. Main. Produces bread and other bakery products.

**Boyd's Donuts**, 34 So. Willson. Boyd H. Burnett, owner. Makes doughnuts.

**Golden Krust Bakery**, 24 No. Tracy Ave. Helmer Lundgren, manager. Makes bread and other bakery products.

#### Browning

**Greco Bakery**, Angelo Greco, manager. Produces bread and other bakery products.

#### Butte

**Birds Home Baked Goods**, 131 W. Broadway. John F. Bird, proprietor. Produces bread and other bakery products.

**Bruce's Donut Bar**, 1635 Harrison Ave. Bruce Rademacker and Harold Mahoney, owners. Makes doughnuts.

**Colonial Bake Shop, Inc.**, 1815 Harrison Ave. Evan Tibbels, president. Makes bread and other bakery products.

**Eddy's Bakery**, Front & Harrison Ave. Frank Young, manager. Makes bread and other bakery products.

**Gamer's Bakery**, 15 W. Park. Carl Rowan, proprietor. Makes bread and other bakery products.

**Mark's Donuts**, 2700 Silver Bow St. Mark Galetti, owner. Makes doughnuts.

**Mollies Pasties**, 2837½ Amherst. Makes pasties.

**Royal Bakery**, 421 E. Park. Joe Keane, proprietor. Makes bread and other bakery products.

**Rush Pie Shop**, 2905 Harrison Ave. Keith S. Rush, owner. Makes pies.

**Town Talk Bakery, Inc.**, 611 E. Front St. Kirk Duykers, president. Makes "Town Talk" bread and other bakery products.

#### Chinook

**Chinook Bakery**, Marlin Brovold, owner. Makes bread and other bakery products.

### Choteau

**Choteau Bakery.** Barney McClue, manager. Makes bread and other bakery products.

### Conrad

**Conrad Bakery.** 310 So. Main. Earl Rowland, owner. Makes bread and other bakery products.

### Cut Bank

**Maxie Bakery.** Makes bread and other bakery products.

### Dillon

**Shatters Bakery.** 112 No. Montana. Makes bread and other bakery products.

### Forsyth

**Sunrise Bakery.** Dona Lemieux, owner. Makes bread and other bakery products.

### Glasgow

**Glasgow Bakery.** 517 2nd Ave. South. Clarence Friese, manager. Makes bread and other bakery products.

### Great Falls

**Craig's Bakery.** 502 5th Ave. So. George Brawner. Makes bread and other bakery products. Brand name "Craig's Bakery."

**Eddy Bakeries Co.,** 900 2nd Ave. North. Clarence D. Fishbaugh, manager. Makes bread and other bakery products.

**Gamer's Bakery.** 805 1st Ave. So. Vincent Weggenman, manager. Makes bread and other bakery products.

**The Spudnut Shop.** 3800 4th Ave. S. James Mackoy. Makes spudnuts and doughnuts.

### Hamilton

**Handley's Bakery.** George Handley, manager. Makes bread and other bakery products.

**Tom's Home Bakery.** 311 W. Main St. Thomas Bundy, manager. Makes bread and other bakery products.

### Hardin

**Hardin Bakery.** Emmo Benson, owner. Makes bread and other bakery products.

### Harlowton

**Harlowton Bakery.** Box 186. Frank Scally, Jr., owner. Makes "Harlo" bread and other bakery products.

### Havre

**Eddy's Bakery.** Garland Boone, manager. Makes bread and other bakery products.

**Blue Star Bakery.** 309 Third Ave. Ed Blue, owner. Makes bread and other bakery products.

### Helena

**Bill's Bakery.** Hustad Shopping Center. Wm. E. Anders, owner. Makes bread and other bakery products.

**Eddy Bakeries Cake Shop.** 18 Edwards & 40 South Park. James Mills, manager. Makes cakes.

**Eva's Bakery.** 301 No. Park Ave. Marvin R. Schutt, owner. Makes bread and other bakery products.

**Gamer's Bakery.** 412 8th Ave. Vincent Weggenman, manager. Makes bread and other bakery products.

**The Goodie Shop.** 108 E. 6th Ave. Heinz H. Chriske, owner. Makes bread and other bakery products.

**Safeway Bakery.** 611 N. Montana. Paul Gerard, manager. Makes bread and other bakery products.

### Kalispell

**Elektrik Maid Bakery.** 312 Main St. Loyal Davis, manager. Makes bread and other bakery products.

**Todd's Bake Shop.** Box 157 Harry Todd, owner. Makes bread and other bakery products.

### Lewistown

**Yettters Bakery.** 419 Main St. George Yetter, manager. Makes bread and other bakery products.

### Livingston

**Ideal Bakery.** 129 So. Main St. John M. Wright, Jr. Makes bread and other bakery products.

### Malta

**Malta Bakery.** Box 639. Walt Johnson, manager. Makes bread and other bakery products.

### Miles City

**Model Bakery.** 509 Main St. William T. Lawlor, owner. Makes bread and other bakery products.

### Missoula

**Albertson's Bakery.** Holiday Village, Highway 93 South. Lloyd Huttlinger, manager. Makes bread and other bakery products.

**Beebe's Bakery.** 529 So. Higgins. Henry A. Beebe, owner. Makes bread and other bakery products.

**Bon-Ton, Inc.,** 505 W. Front. Alex Stepanzoff, president. Makes bread and other bakery products.

**Buttre's East Gate Bakery.** East Gate Shopping Center. Highway 10 East. Robert Harris, manager. Makes bread and other bakery products.

**Buttre's Super Bakery.** Tremper Shopping Center. Highway 93 South. Leo Jobe, manager. Makes bread and other bakery products.

**Eddy Bakery.** 237 Blaine. Milt Honson, manager. Makes bread and other bakery products.

**Super Save Bakery.** 501 So. 5th West. William Richardson, manager. Makes bread and other bakery products.

### Polson

**The Donut Shop.** Box 140. Ed and Theona Hosley. Makes cakes, doughnuts and pies only.

**Lake City Home Bakery.** Box 406 Tom Krantz, owner. Makes bread and other bakery products. Brand name "Lake City Home Bakery."

### Shelby

**Shelby Bakery.** Max Cebulla, manager. Makes "Moxie's" bread and other bakery products.

### Sheridan

**Sheridan Bakery.** Bruce Pearson, manager. Makes bread and other bakery products.

### Sidney

**Snowflake Bakery.** Box 827. Sam Maltese, president. Makes bread and other bakery products.

### Stevensville

**City Bakery.** George Wickham, manager. Makes bread and other bakery products. Brand name "City Bakery."

## 2025 Biscuits, Crackers and Pretzels

### Billings

**Supreme Bakers.** 3101 1st Ave. South. Tony Hruska, Div. Sales Manager. Makes crackers and cookies.

## 206 SUGAR

### 2063 Beet Sugar

#### Billings

**The Great Western Sugar Co.** Frank A. Kemp, president. Home office, Box 5308, Terminal Annex, Denver, Colorado. Manufactures "GW Pure Sugar."

#### Hardin

**Holly Sugar Corp.** Chet C. Bounous, plant manager. Manufactures "Holly Sugar."

#### Missoula

**American Crystal Sugar Co.,** Mullan Road. E. L. Swift, manager. Manufactures beet sugar, dried beet pulp, beet molasses. Brand name "Crystal Sugar."

## 207 CONFECTIONERY AND RELATED PRODUCTS

### 2071 Candy and Other Confectionery Products

#### Billings

**Bonnie Lorraine Candy Shop.** 2706 2nd Ave. North. Mrs. Mae Paddock, owner. Makes candies. Brand name "Bonnie Lorraine."

**Doll House Candies.** 2614 1st Ave. North. Sam and Agnes Doll, owners. Makes chocolates, hard candies, brittles, drops, fondants, and dipped nuts.

**Wilcoxson's Ice Cream Co.,** 114 No. 19th St. Harold Wilcoxson, president. Makes ice cream and candy. Listed under industry No. 2024.

#### Butte

**Lolly Rings.** 510 So. Excelsior. Vincent Barry, owner. Makes ice cream, Lolly Rings and bars. Listed under industry No. 2024.

**Shepperds Sweets.** 2405 Harrison Ave. Bruce R. Shepperd. Makes chocolates and other candy.

#### Great Falls

**Liberty Corner Confectionery.** 303 Central Ave. John Culleton. Makes homemade candies.

#### Helena

**Parrot Confectionery.** 42 No. Main. Arnold and Nancy Duensing, owners. Makes candies.

#### Livingston

**Wilcoxson's, Inc.,** 314 So. Main. Joe Ruegg. Makes ice cream and "Wilcoxson's" candy. Listed under industry No. 2024.

#### Miles City

**Torgus E. Wall.** 614 Yellowstone Ave. Candy and confectionery.

## 208 BEVERAGE INDUSTRIES

### 2082 Malt Liquors

#### Butte

**Butte Brewing Corp.,** 220 No. Wyoming. E. N. Lazzari, manager. Manufactures malt liquors.

#### Great Falls

**Great Falls Breweries.** Box 1604. F. C. Schille, president. Manufactures malt liquors. Brand name "Great Falls Select."



## 2086 Bottled and Canned Soft Drinks and Carbonated Waters

### Anaconda

**Sugrue Bottling Co.**, 1210 E. Park Ave. Jack A. and John J. Sugrue. Makes "Pepsi-Cola," "Orange Crush," "Bubble-Up," "Quench," and "Old Colony" flavors.

### Billings

**Beverages of Billings, Inc.**, 4151 1st Ave. South. William S. Goan, president. Makes "Seven-Up," "Crush," "Coca-Cola," "Squirt," "Dr. Pepper," "Dry Soda" and Ginger Ale.

**Pepsi-Cola Bottling Co.**, 344 Howard Ave. Mike Dimich, Jr., president. Makes "Pepsi-Cola," "Teem," "Patio Diet Cola," "Nesbitt's Orange," "Hire's Root Beer," "Canada Dry" flavors and mixes.

**Seven-Up Bottling Co. of Billings**, Box 1452. William S. Goan, president. Makes "Seven-Up," "Coca-Cola," "Tab," "Squirt," "Dr. Pepper," "Crush," Schweppes Products, Quinine Water, Club Soda, Ginger Ale and dietetic beverages.

**Yellowstone Quality Chekd Dairy**, 901 Terry Ave. Arnold Kessler, general manager. Makes ice cream, fluid milk, cottage cheese, sour cream, buttermilk, orange and grape drinks. Listed under Industry Nos. 2024 and 2026.

### Bozeman

**Bozeman Coca-Cola Bottling Co.**, 802 No. Wallace St., Carl Lehrkind, Jr., president. Makes "Coca-Cola," "Seven-Up" and "Mission."

### Butte

**Harkins Bottling Co.**, 22 East Quartz. Jack and Bill Harkins. Makes "Cliquot Club," "Squirt," "Hire's and Green River."

**Harrington Bottling Co.**, 1740 Holmes Ave. Charles Harrington, president. Makes "Pepsi-Cola," "Diet-Cola," "Teem" and "Quench."

**Seven-Up Bottling Co. of Montana**, 2801 Farragut. M. P. Godbout, manager. Makes "Coca-Cola," "Seven-Up," "Canada Dry" and "Doctor Pepper."

### Glasgow

**Coca-Cola Bottling Co.**, 109 2nd St. South. Buell C. Hayward, manager. Bottles "Coca-Cola" and "Seven-Up."

### Great Falls

**Great Falls Coca-Cola Bottling Co.**, 625 Central Ave. W. R. F. Jorgensen, general manager. Bottles "Coca-Cola," "Squirt," "Nesbitt's Orange," root beer and soft drinks.

**Liquid Assets, Inc.**, 420 3rd Ave. South. R. H. Starling, president. Bottles "Pepsi-Cola," "Teem," "Patio" flavors, orange, grape, grapefruit, also syrups, all flavors.

**Pepsi-Cola Bottling Co. of Montana**, 420 3rd Ave. South. R. H. Starling, president. Makes "Pepsi-Cola," "Hire's" and "Quench" soft drinks.

**Seven-Up Bottling Co.**, 1117 7th South. L. A. Eneboe, president. Bottles "Seven-Up," "Dr. Pepper," "Nehi" soft drinks.

### Havre

**Coca-Cola Bottling Co.**, 922 7th Ave. W. W. Cassel, general manager. Bottles "Coca-Cola," "Squirt," "Seven-Up," "Sunrise" and "Pre-Mis."

### Helena

**Helena Bottling Co.**, 617 Helena Ave. Harold Gorrity, manager. Bottles "Squirt," "Nesbitt's Orange," "Twang" and root beer.

**Helena Coca-Cola Bottling Co.**, 939 Getchell. Bottles "Mission Orange," "Cliquot Club," "Coca-Cola," "Seven-Up" and "Fanta Favors."

### Kalispell

**Flathead Coca-Cola Bottling Co.**, 451 North Main. Robert Happ. Bottles "Coca-Cola," "Nesbitt's" and "Hire's."

**Kalispell Bottling Co.**, 751 Sunset Blvd. F. H. Parkerson. Bottles soft drinks.

### Lewistown

**Coca-Cola Bottling Co.**, 204 1st Ave. North. George Kuchan, manager. Bottles "Coca-Cola" and "Seven-Up."

### Livingston

**Central Wholesale, Inc.**, 110 North B St. Robert N. Jorgensen, president. Manufactures "Pepsi-Cola," "Squirt," "Teem" and "Hire's Root Beer."

### Miles City

**Coca-Cola Bottling Co. of Miles City**, 409 Main. Harold Weimer, president. Bottles "Coca-Cola," "Sunrise," "Tab," "Squirt," and "76."

### Missoula

**Coca-Cola Bottling Co.**, 339 West Broadway. Edward M. Furali, president and manager. Bottles "Coca-Cola," "Seven-Up," "Nesbitt's," "Tab" and "Tike."

**Medo-Land Dairies**, 2600 South 3rd West. H. A. Searles, president. Processes ice cream, fluid milk and bottled mix. Brand name "Medo-Land Quality Chekd." Listed under Industry Nos. 2024 and 2026.

**Pepsi-Cola Bottling Co.**, 2147 Ernest. Alvin Cors, vice president. Bottles "Pepsi-Cola," "Squirt," "Teem" and "Orange Crush."

**Zip Beverage Co.**, 938 Phillips. Leonard Zippertan. Bottles soft drinks.

### Roundup

**Roundup Bottling Co.**, 210 East 2nd St. Delbert L. Summers & James L. Wade, partners. Bottles "Pepsi-Cola" and "Squirt."

### Shelby

**Seven-Up Kist Bottling Co.** Weber Seeley. Bottles soft drinks and carbonated waters.

### Sidney

**Blue Rock Products Co.**, 202 3rd Ave. N. E. Charles Johnson, owner. Bottles "Pepsi-Cola."

## 209 MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS

### 2093 Vegetable Oil Mills, Except Cottonseed and Soybean

#### Great Falls

**Montana Vegetable Oil & Feed Co.**, Box 1511. John Noble, president. Manufactures linseed meal and pellets. Brand name "Montana Vegetable Oil & Feed Co."

### 2094 Grease and Tallow

#### Billings

**Billings Rendering Co.**, Box 1564. L. C. Syverson. Manufactures feed from animal by-products.

#### Dillon

**Dillon Rendering Co.**, Box 671. Andy Schieman, owner. Makes greases and tallow.

#### Great Falls

**Montana Rendering Co.**, SE of Great Falls. E. Neudham. Makes meat meal for livestock feed, and tallow. Listed under Industry No. 2042.

#### Miles City

**Miles City Packing Co.**, Box 936. W. F. Munsell, proprietor. Butchers beef and deals in by-products such as hides and tallow. Listed under Industry No. 2011.

**Miles City Rendering Co.**, West Main. Henry Kuchynka, manager. Renders grease and tallow.

#### Missoula

**Missoula Rendering Co.**, Box 1364. Charles F. Voker. Processes meat meal, grease and tallow.

#### Sidney

**Sidney Rendering Co.**, Box 12. Henry Stip, manager. Processes grease and tallow.

### 2096 Shortening, Table Oils, Margarine and Other Edible Fats and Oils, not elsewhere Classified.

#### Culbertson

**Pacific Vegetable Oil Corp.**, Box 98. Curtis Halseide, manager. Manufactures safflower oil, PVO safflower pellets and PVO safflower meal. Listed under Industry No. 2042.

### 2097 Manufactured Ice

#### Billings

**Artificial Ice and Cold Storage Co.**, 4147 1st Ave. South. William S. Goan, president. Manufactures ice.

#### Butte

**Western Refrigeration**, 750 So. Wyoming. Clifford Hirsch, manager. Produces ice cream and ice. Listed under Industry No. 2024.

#### Missoula

**Missoula Creamery & Cold Storage Co.**, 707 E. Front St. Eugene Graybeal and Mrs. Eugene Graybeal, co-owners. Processes meat and manufactures ice. Listed under Industry No. 2011.

### 2098 Macaroni, Spaghetti, Vermicelli, and Noodles

#### Helena

**Pot-O-Gold Noodles**, 201 South Main St. Herman Zumbrun, manager. Egg noodles.

### 2099 Food Preparations, not elsewhere Classified

#### Belgrade

**Golden Montana Honey Co.** Processes honey.

#### Billings

**Billings Prepared Potato Co.**, 1009 2nd Ave. North. W. J. Hunter. Processes prepared potatoes for restaurant use.

**Goodies Spud Chip Co.**, Box 483. E. J. Madden, president. Makes spud chips and popcorn.

**McCoy's Picnic Horseradish**, Box 1023. Robert Wm. McCoy, owner. Processes horseradish.

**Nailey's Montana Co.,** Box 1943. Phillip Werle, superintendent. Processes potato chips.

#### **Bozeman**

**Joseph W. Barnett,** 319 No. Church Ave. Processes honey.

#### **Butte**

**Truzzolino Food Products,** 514 W. Mercury. John Truzzolino, president. Manufactures tamales, fresh and canned.

#### **Conrad**

**Sunburst Biochemical Co.,** LeRoy Anderson, manager. Processes molasses and yeast and manufactures starch from barley. Listed under Industry No. 2046.

#### **Corvallis**

**Marsh Apiaries,** Howard Marsh, manager. Process honey and by-product, beeswax. Listed under Industry No. 2842.

**Pile Apiaries,** James Pile, manager. Process honey and by-product, beeswax. Listed under Industry No. 2842.

#### **Dillon**

**Earl Barnes,** Processes honey.

#### **East Helena**

**Jiffy Bar B-Q Rib Co.,** Frank O. Duffley, manager. Processes and packages barbecued ribs.

#### **Ekalaka**

**Bees Best Honey,** Joe Barrow, owner. Processes honey.

#### **Ennis**

**J. P. McDaniel,** Box 161. Processes honey and by-product, beeswax. Listed under Industry No. 2842.

**Cliff Sell,** Processes honey and by-product, beeswax. Listed under Industry No. 2842.

#### **Glasgow**

**Northern Bloom Honey Co.,** Faxton E. Castleberry. Processes honey and by-product, beeswax. Listed under Industry No. 2842.

#### **Great Falls**

**Big Stack Chip & Food Co.,** 3212 4th Ave. So. Tim Calaway, president. Processes potatoes and potato chips under brand name "Big Stack."

#### **Hardin**

**Alex Martin,** 622 No. Crawlford Ave. Processes honey.

#### **Helena**

**Al & Ted's Honey Shop,** No. of Helena. Al and Ted Chenovick, owners. Processes honey and by-product, beeswax. Listed under Industry No. 2842.

#### **Lewistown**

**Foster Apiarist, Inc.,** Donald Foster, manager. Processes honey and by-product, beeswax. Listed under Industry No. 2842.

#### **Malta**

**Bancroft Apiaries,** 174 Main St., Box 132. George Bancroft, owner. Processes honey and by-product, beeswax. Listed under Industry No. 2842.

#### **Manhattan**

**Cloverdale Apiaries,** Carl Christenson and George Balyntyne. Processes honey and by-product, beeswax. Listed under Industry No. 2842.

**Kelso Apiaries,** Don Kelso, owner. Processes honey.

#### **Missoula**

**Henke Pop Corn Co.,** 302 So. 5th West. George Henke, owner. Manufactures popcorn.

**Porter Food Products,** 1026 So. 5th West. Gilbert Porter. Manufactures potato chips.

#### **Sheridan**

**Wind River Honey Company,** Schaeffer & Krause, owners. Processes honey and by-product, beeswax. Listed under Industry No. 2842.

#### **Twin Bridges**

**Bowen-Wilson Honey Producers,** Process honey and by-product, beeswax. Listed under Industry No. 2842.

#### **Whitefish**

**Touch O'Magic,** Russell Street, owner. Manufactures "Touch O'Magic" all-purpose seasoning salt.

#### **Wolf Point**

**Honeyland Apiaries,** Harry Rodenberg, owner. Processes honey and by-product, beeswax. Listed under Industry No. 2842.

### **MAJOR GROUP 23 — APPAREL AND OTHER**

#### **FINISHED PRODUCTS MADE FROM**

#### **FABRICS AND SIMILAR MATERIALS**

##### **237 FUR GOODS**

###### **2371 Fur Goods**

#### **Great Falls**

**Beckman Bros., Inc.,** Box 1648. Al Beckman, president. Manufactures fur coats, moccasins, gloves and other accessories, tans and finishes leather and furs. Listed under Industry Nos. 3111, 3141 and 3151.

##### **239 MISCELLANEOUS FABRICATED TEXTILE PRODUCTS**

###### **2391 Curtains and Draperies**

#### **Harlowton**

**Polly's Upholstering,** Polly Riggs, owner. Manufactures curtains and draperies.

#### **Helena**

**Draperies by Duane,** 301 Euclid Avenue. Duane Lindstrom, owner. Manufactures custom made draperies.

**Hudson's Upholstery & Carpet,** 11th and Main. Roy Hudson, owner. Manufactures custom made draperies.

#### **Missoula**

**Drapery & Venetian Blind Co.,** 427 No. Higgins. Robert Boyer, owner. Manufactures draperies and Venetian blinds. Listed under Industry No. 2591.

##### **2394 Canvas Products**

#### **Billings**

**Reliable Tent & Awning Co.,** 14 No. 29th St. M. A. Nemow, owner and manager. Manufactures tents, awnings, tarpaulins, irrigating dams and supplies.

#### **Fairfield**

**Fairfield Shoe Shop,** Charles Williams, manager. Manufactures tents and awnings.

#### **Great Falls**

**Great Falls Tent & Awning,** 611 8th Ave. No. Ralph Henn. Manufactures tents and awnings.

**Northwest Canvas Products Co.,** 513 1st Ave. So. Robert E. Barnett. Manufactures tents, tarps, window shades and all kinds of canvas products.

#### **Helena**

**Sperry's Canvas Shop,** 409 Fuller Ave. Donald Sperry, owner. Canvas custom work.

#### **Missoula**

**Big Broadway,** 900 West Broadway. Henry Silver, manager. Manufactures tents, awnings and canvas products.

##### **2399 Fabricated Textile Products, not elsewhere Classified**

#### **Billings**

**The Seat Cover Center, Inc.,** Box 772. Carl J. Wegner, president. Manufactures seat covers and all types of upholstery.

### **MAJOR GROUP 24 — LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE**

#### **241 LOGGING CAMPS AND LOGGING CONTRACTORS**

##### **2411 Logging Camps and Logging Contractors**

#### **Alberton**

**Robert G. Bondurant**  
**Helean Logging Co.**

#### **Anaconda**

**Thomas Ricks,** 414 East Commercial

#### **Arlee**

**Earling Logging Co., Inc.**  
**Jack Flansburg**  
**Otis E. Park**

#### **Belgrade**

**Bill Chaney**  
**Auburn Cockerham,** Box 494  
**Elder Brother Logging,** Box 422  
**George R. Gabbard**  
**Edward J. Smart Logging,** Box 408  
**M. L. Thomas**

#### **Big Arm**

**Ernest D. Davis,** Box 8

#### **Bozeman**

**Avery Adams,** 900 No. 7th  
**Gilbert M. Arts,** 907 No. 17th Ave.  
**Stephen Ray Card,** Box 345  
**Corcoran Pulpwood Co.,** Donald Corcoran, president, Box 531



Merlyn J. Horen, 1404 W. Koch  
W. P. Kackelmier, Box 2  
Ellis McNinch, Route 2, Box 261  
T. G. Taylor Contractor, 403 So. 10th

#### Clinton

Bonita Logging Co.  
E. J. Logging, c/o Willis Ranch  
Flansburg Ranch Co.  
Jerry Montelius Logging, Jerry Montelius, owner.

#### Columbia Falls

Jacob Birky, Route 1-B  
Donald Doane Logging, Box 427  
E. J. Herzog, Box 25  
John Herzog, Box 1071  
Royal Logging Co., Holly Larson, manager.  
Louie B. Sasse, Route 1-B Studs.  
Norman Stringfellow, Route 1-A.  
Stud Timber Co., Inc., Box 215. Studs.  
Will Warner  
Weaver Logging, Route 1 A

#### Conner

Curtis Wildey Logging  
Milo E. Wilson

#### Corvallis

Burnham Logging, F. E. Burnham, owner.

#### Darby

Coultas Cenner Logging  
Roger B. Corner  
Harold Edward Irwin  
Sargent & McKinney  
Roy A. Shook  
Charles E. Walker

#### Dayton

Dayton Timber Co., Inc.

#### Frenchtown

Jess McDonald

#### Gallatin Gateway

Barnes Brothers  
Becker & Munyan Logging Co.  
F. W. Blanchard Logging  
Jay Hargrove  
Robert E. Olsen Logging

#### Hamilton

Brinkerhoff Logging, Box 391  
Hans Jacobsen, Route 2, Box 388A  
Long Loggers, Inc. Leo M. Rall, manager.  
John W. Maydole, Route 1, Box 266  
John Snider Logging, 607 Adirondac

#### Huson

R. D. Kreis  
Stark Mountain Logging Co.

#### Kalispell

F. Roy Bauer, Route 2

Harry Birky, 327 Harmony Road  
Gene Birky, 12 First Ave. West  
Broeder Bros. Lumber Co. Fred Broeder, manager. Rte. 4.  
Chester A. Corneliuson, Route 3  
Clarence J. Johnson, Route 7, Solberg Drive.  
Elwin Johnson, 277 1st Ave. E.  
James A. Kauffman, Route 4  
Henry A. Keller, Route 3  
Byron E. Metcalf Logging, Route 1  
John Slack, 529 E. Evergreen Drive  
John C. Slack, Box 46  
Melvin Timblin, Route 2  
Wickham & Wickham, Route 3  
C. H. Winkley

#### Kila

Loren S. Everett

#### Lincoln

George C. Anderson  
Berglund & Orr  
Clifford Gehring  
Don Hammer, House Logs.  
Kenneth Hoeltner  
Sandon Logging Co. Raleigh Sandon, owner.  
Suburban Logging Co., Donald Martin, manager  
John A. Thompson

#### Livingston

Birley Logging, Box 338. Ralph E. Birley.  
Wallace M. Ghoslin, 326 So. B  
Moulet Logging, 425 No. 7th St  
Park Wood Products, Inc., 5 Acre Track. Gerald Hersman,  
owner. Fireplace wood for use in Yellowstone Park. Man-  
ufactured res. 'fire starter' sold exclusively to Yellowstone  
Park.  
Vandervoort Logging, 804 North 11th. Ed Vandervoort.  
Wilmot Logging, Box 937. Daniel S. Wilmot.

#### Lofo

Rossignol Logging & Ranch Co.

#### Manhattan

Barnes Logging, Box 314.

#### Marion

Carl G. Liebig, Star Route  
Provence Brothers  
Ralph Provence

#### Martin City

Canyon Logging Co.

#### Milltown

Edward L. Crouch, Box 323.

#### Missoula

Baker Logging, 408 Stevens  
Robert J. Cameron, Box 884  
Chord Logging, Route 1  
Clark Logging, 1007 Palmer  
Evergreen Products Co., Inc., Box 785  
Fair Weather Logging, 1038½ Briar. James B. Patterson  
Far West Logging Co., 208 Higgins Building

Milton T. Felstet Co., Mullan Road  
Ray Fetscher Logging, 1616 South 10th  
Ted Finlay, Route 3  
Forests West, Box 384  
Walter M. Fouty Logging, 907 Cooper  
Emil Hausauer Logging, 1820 Grant  
Keith A. Hibbard, 416 Evans  
John J. Hoggan, 1721 Phillips  
Huson Logging Co., Inc., Box 619  
Kenneth W. Johnson, 1202 North Ave. W.  
Jack Long Logging Co., 408 Stevens  
Lucky Logger Co., 1811 South Ave. Edward Nelson  
McDonald's, Inc., Route 4  
Robert McKinley, 2000 Schilling  
William W. Nickerl, 1734 Missoula Ave.  
H. L. Palmer Logging, 320 Dearborn  
D. A. Reber Logging, 3012 Bancroft. D. A. Reber  
Salvage Logging Service, 5 Virginia Drive. Richard De-  
Vries, manager  
G. & L. Sharp, 3200 Reserve St.  
Skaw Logging, 2405 So. 10th West, Ralph E. Skaw  
John H. Spaulding, 315 5th St.  
F. B. Standley, 435 Burlington  
Stillwater Logging, Inc., Box 199. R. E. Jeakins, M. P.  
Nash & R. A. McGrew.  
George J. Thomas, 2215 Davidson  
Tree Farmers, Inc., Box 1361

#### Neihart

Gerald W. Hays, Box 45

#### Olney

G. I. Burk, Box 43  
Gustafson & Danielson  
Leo Stock, Box 102

#### Pablo

Gustafson & Danielson Logging, Box 265. Olaf Gustafson  
and Henry Danielson, owners.

#### Philipsburg

Walker Logging, Box 722. B. C. and M. L. Walker

#### Polson

Claridge Logging Co., Inc., Box 838. Lyman Claridge,  
owner  
Eli W. Morigeau  
Clyde E. Tompkins

#### Ronan

Leo Sias

#### Roundup

Sealey's Sawmill, 1206 4th St. W. Lawrence M. Sealey.  
Sawmill and planing mill listed under Industry No. 2421.  
Yount's Sawmill, Klein Star Route. W. J. Yount. Sawmill  
and planing mill listed under Industry No. 2421.

#### St. Ignatius

K. P. Logging Co. Leonard Pierce, manager.

#### St. Regis

M-S Logging Co.

### Seeley Lake

Cleorwater Logging, Inc. Fred Johnson, president.  
Gray Logging Co. Marshall Gray, president.  
Ploybar Logging

### Somers

Bruce H. Walker

### Stevensville

Roberts Logging, Kenneth M. Roberts, owner.

### Superior

Henry G. Anderson

Big Sky Logging Co. Walter Wollgast, manager.

James E. Groves

J. E. Hall

Max Johnson, Box 822

Sverdsten Logging Co.

Miles E. Tower

Donald Woods

### Swan Lake

Robert L. Martin

### Three Forks

William T. Callantine

### Victor

G & R Logging, Box 194 Dale Gingrich, manager.  
Rimmereid Logging, Box 503

### West Glacier

Little Creek Logging Co., Box 276. Wilma Smith, president

### West Yellowstone

Charles J. Ericson, Inc., Box 527 Sawmill listed under  
Industry No. 2421.

Earl Wilcox

### Whitefish

Brown Bros. Christmas Tree Yard, Glen Brown: Christ-  
mas trees listed under Industry No. 2499.

Clifford Hamley, Route 1

Iverson & Son, Route 1

Bruce Reimer, 843 8th St

David H. Roth, East Lakeshore Road.

Glenn A. Stevens, 1010 Park Ave.

Russell C. Warner, Route 1

Wood Post Co., Route 1. Fence posts

### Wilsall

Art Beach

Taylor R. Van Bloricom

## 242 SAWMILLS AND PLANING MILLS

### 2421 Sawmills and Planing Mills, General

#### Ashland

Ashland Lumber Co. Mark Nance, owner.

#### Anaconda

Joe F. Kanduch & Sons, Inc., Borker Creek. Also snow  
fence and wood laths.

#### Belgrade

Yellowstone Pine Co., Inc. Blaine Cobat, president.

### Bonner

Anaconda Forest Products, Robert E. Sheridan, genera.  
manager. Laminated trusses listed under Industry No.  
2433.

### Bozeman

D. Bryce Goulding, owner.

Shadoan's Sawmill, Route 2, Box 166.

Three D Lumber Co., Box 245. Richard Francis, manager.

### Broadus

Frank C. Bidwell Sawmill, Box 141.

### Browning

Rex Brown Lumber Co. Rex Brown, manager

### Butte

Five Mile Sawmill, Route 1, Five Mile. Arthur Dick, owner.  
Rough lumber.

### Clancy

Wade Lumber Co., Box 97. Harold Wade, owner. Rough  
lumber.

### Clyde Park

Terry Mills

### Columbia Falls

Henry Geror, Route 1-B. Studs

L. Peter Larson Co., Half Moon Cr Inez Weyrauch

Rocky Mountain Lumber Co., Box 155. Alvin Reid, man-  
ager. Finished lumber.

Rocky Mountain Timber Co., Inc. Finished lumber.

F. H. Stoltze Land & Lumber. Finished lumber

Superior Building Co. Finished lumber

### Coram

Martin City Lumber Co., Box 186. Finished lumber.

Spruce Park Lumber Co., Box 145. Rough lumber

### Creston

Krause Lumber Co. Harry Krause. Rough lumber.

### Darby

Bitterroot Timber Industries, Inc. Clyde Rummel, man-  
ager. Studs, ties, flooring, lath, lumber of all types.

Del Conner Lumber, Inc. Del Conner, manager.

Intermountain Lumber Co. Milton Van Comp, manager.

Lumber of all types, Pres-to-Logs, pulp chips, hog fuel.

S & W Sawmill, Box 395. Dee Shook, president. Lumber of  
all types, studs, ties, flooring, roof decking, lath.

Storer & Flightner, Inc. R. O. Flightner, president. Ronald

Bibler, manager. Rough and finished lumber, lath, pick-  
ets, stakes, mouldings.

### Drummond

Sorenson Brothers Sawmill. Dean Sorenson

### East Helena

Casey's, Inc., Box 729. James B. Casey, president.

Dwight Darrah, Box 651.

### Fortine

M. E. Greer. Studs.

### Great Falls

Great Falls Forest Products, Inc. Box 2043. Ra. T.  
Randono. Finished lumber.

Pappin Construction Co., Box 1481. Robert F. Pap

### Hall

Flint Creek Lumber Co. Ernest Hunt.

### Hamilton

Simmons Wood Products, Box 113. Alfred Simmons  
ager. Wood furniture stock, fruit boxes listed under In-  
dustry No. 2426.

Taber Mill Company, Box 232. Gerald D. White, n-  
ager. Finished lumber and maulding.

### Hardin

Saunders Lumber Co. Robert & Lloyd Saunders.

### Helena

Jean P. DeBree, Route A.

Dave Hahn Sawmill, 2122 Lockey Ave. Dave Hahn, o-  
Frank Magara, Route A. Studs.

Nelson Sawmill, Box 982. Bert Nelson, owner.

Nettleton's Sawmill, 2003 Butte Avenue. Earl Nett-  
owner.

### Highwood

Kind Sawmill. Charles Kind.

### Kalispell

American Timber Co., Box 767. Rough lumber.

Broeder Bros. Lumber Co., Route 4. Fred Broeder, r-  
ager. Finished lumber and studs.

Everett Wood Products, Somers Stage. J. Herbert Bran-  
dom, president.

Evergreen Timber Co., 315 Solberg Drive. Studs.

F & C Mill, Route 1. Fred and Clyde Jones.

Forest Products Co., Inc., Box 473. Larry O'Neil, manager.  
Finished lumber.

Lester Hutton, Route 1. Studs.

Mark Meyers, 47 W. California

Montana Saw Service. Bill Irwin, manager. Surfaced studs.

P & W Lumber, Route 2. Studs.

William L. Royer, Box 597. Studs and ties.

Schmid & Hardinger, 426 6th Ave. W. Studs.

H. E. Simpson Lumber Co., Box 97. Ties.

Western Timber Products. Everett W. Eyers, president.

Burton O. Wollan, Helena Flats, Route 1. Studs.

### Kila

Frank Gamma Sawmill. Studs.

Bruce D. Kiser

### Lame Deer

Siegfried Lumber Co. Paul Siegfried, manager.

### Lewistown

Mark Meyers Sawmill, 402 East Broadway. Mark Meyers,  
manager. Posts and poles.

### Lincoln

Howard W. Davis

Delaney & Sons, Inc. Robert & Donald Delaney, owners.

Don Evans Sawmill. Don Evans, owner.

Thompson Lumber Co., A. G. Thompson, owner.



### Livingston

**Burkland Studs, Inc.**, Box 498. C. D. Ough, general manager. Manufactures "Burkland Studs."  
**Canyon View Lumber Co.**, Box 728. Albert Gehlhausen. Jones Lumber Co., 517 No. 2nd St. Frank Jones, owner.  
**Park Lumber Co.**, Box 751. Paul Pollock, manager.

### Lodge Grass

**Black Lumber Co., Inc.**, H. N. Black, president.  
R. E. Simpson

### Manhattan

**Oyler Lumber Co.**, Box 65. Enos Oyler.

### Marion

**Kinniburgh Brothers.** Rough studs.  
**Esther McIntyre.** Studs.  
**Austin Monk.** Studs.  
**Henry Schnackenberg.** Studs.  
**F K & L Lumber Co., Inc.** Rough Lumber.

### Missoula

**Clarks Fork Co.**, Box 1347. H. S. Pennypacker, plant manager. Fir studs.  
**Elk Horn Lumber Co., Inc.**, Agnes Ave. and Buckley. Donald E. Delaney, president. Rough dimension, finished lumber, moulding, chips for pulping.  
**L. A. Hamilton Lumber Co.**, Box 1432  
**Intermountain Lumber Co.**, Box 1347. Horace H. Koessler, president. Lumber, millwork, wood products. Brand name "Intermountain."  
**John C. Klapwyk.** Route 1.  
**Missoula Sawmills, Inc.**, West of Missoula. Robert R. Jenkins, general manager.  
**Mount Lolo Lumber Co.**, Box 724. Donald L. Delaney, president. "Mt. Lolo" branded on end of all lumber.

### Olney

**William E. and Robert D. Watson.** Rough lumber.

### Pablo

**Plum Creek Lumber,** plant no. 2. Lyle Manning, general manager. Kiln-dried finished lumber. Chipper facilities.

### Polebridge

**L & S Lumber Co.** Rough lumber.

### Polson

**Danielson Brothers.** Pete & Carl Danielson, owners. Rough lumber and railroad ties.  
**Dupuis Bros. Lumber Co.**, Route 1. Ed Dupuis, manager. Kiln-dried finished lumber. Chipper facilities.  
**James Lumber Co.**, Box 86. Marshall S. James, president. Stud mill.

### Roundup

**Sealey's Sawmill,** 1206 4th St. W. Lawrence M. Sealey. Also listed under Industry No. 2411 as logging contractor.  
**Yount's Sawmill,** Klein Star Route. W. J. Yount. Also listed under Industry No. 2411 as logging contractor.

### St. Regis

**J. L. Alexander.** Studs, ties and poles.

**Burns Yaak River Lumber Co.** Jack Burns, manager. Rough cut lumber. Home office, 1023 W. Riverside Ave., Spokane, Washington.

### Seeley Lake

**Gray Lumber Co.**, Marshall Gray, president.  
**Gray Milling Co.**, Marshall Gray, president. Surfaced dimension lumber.  
**Pyramid Mountain Lumber, Inc.** Fred D. Johnson, president. Brand name "Pyramid."  
**Seeley Lake Milling Co.**, Box 20. Fred D. Johnson, pres.

### Stevensville

**Robert Walker Lumber Mill.** Rough lumber and railroad ties.

### Superior

**Diamond National Corporation.** Shirley Straight, manager. Kiln-dried finished lumber, pulp chips, and shavings.  
**E. C. Smith,** Box 536. Rough cut lumber and mine lumber.

### Toston

**W. E. Jewett.** Rough lumber only.

### Townsend

**Campbell Sawmill.** Jim Campbell, owner.  
**Dwyer Bros. Lumber Co.** Pat Dwyer, manager. Rough lumber only.  
**Emerson Stud Mill.** Chet Emerson, owner. Rough studs.  
**Mattson Lumber Co.** Arvid Mattson, owner. Rough lumber and studs.  
**McHenry Sawmill.** William McHenry, owner.  
**Smith Sawmill.** Lee E. Smith, owner.  
**Townsend Lumber Co., Inc.** D. W. Neiferl, manager. Finished lumber of all kinds.  
**Townsend Sawmill.** Earl Miller, manager.  
**Wade Sawmill.** Harold Wade, owner.

### Twin Bridges

**Jay & Sons Sawmill.** Glen E. Jay, owner.

### Victor

**Dunbar Sawmill.** RFD 1. Thomas Dunbar, manager.

### West Glacier

**Dalimata & Son,** Box 378. Studs.

### West Yellowstone

**Elk Stud Mill.** Virgil House, manager. Studs.  
**Charles J. Ericson, Inc.**, Box 527. Also listed under Industry No. 2411 as logging contractor.  
**West Yellowstone Lumber Co.** Vivian Rightenour.

### Whitefish

**Lawrence L. Agnew.** Route 1.  
**Allen Bowley,** Box 831. Studs.  
**Cascade Machine Works.** Dave Polter, manager. Studs. Plywood and veneer listed under Industry No. 2432.  
**Ernest F. Micho.** Route 1.  
**North Montana.** 820 Park Avenue. Studs.  
**Stillwater Timber Products,** Route 1. Rough lumber.

### Whitehall

**Whitehall Sawmill,** Box 139. Francis Rust, owner. Finished lumber.

### Wisdom

**Hans Lauesen,** Box 324.

### Wolf Creek

**Don Hilger.** Makes poles.  
**Kenny Bros. Lumber Co.** Wendel Kenney, owner. Pole and fence posts plant.

## 2426 Hardwood Dimension and Flooring Mills

### Kalispell

**Monty Kennedy.** 643 Meridian Road. Manufactures gun stocks.

## 2429 Special Product Sawmills, not elsewhere Classified

### Seeley Lake

**Gray Wood Products.** Marshall Gray, president. Manufactures wood chips.

## 243 MILLWORK, VENEER, PLYWOOD AND PREFABRICATED STRUCTURAL WOOD PRODUCTS

## 2431 Millwork Plants

### Anaconda

**Del-Ken Construction Co.**, 313 E. Commercial Ave. Ken Smith, manager. Custom millwork. Wood cabinets listed under Industry No. 2511.  
**Leo Smith Construction Co.**, 1016 W. 5th St. Leo Smith, owner. Millwork, veneer, plywood, prefab structures.

### Bigfork

**Jack J. Whitney,** Box 133. Fabricated millwork.

### Billings

**Builders Mart, Inc.**, 2021 2nd Ave. No. Louis F. Cucciaski, owner. All types of millwork.  
**Billings Sash & Door Co.**, 116 No. 20th St. George H. Pelatt, president and general manager. Prefabricated window units, door units, garage door units, architectural and special millwork. Brand names "Biltwell" and "Barcol."  
**Lindsey Sash & Hardware Co.**, 523 Lake Elmo Drive. Robert W. Lindsey, president. Window and door units assembled.  
**Millwork Supply, Inc.**, P. O. Box 1181. John A. Weinschrott, president. Manufacture and fabrication of all kinds of millwork.  
**Quality Millwork & Manufacturing Co.**, N. P. Industrial Site. Sidney R. Cornell, president. Manufactures overhead garage doors.

### Butte

**Butte Sash & Door Co.**, 26 E. Silver. E. J. Lynch, general manager. Custom millwork.

### Great Falls

**Duffield's Cabinet Shop,** 311 5th South. Melvin G. White. Custom woodworking, doors, cabinets, storm windows.  
**Formicove Manufacturing & Distributing Co.**, 1205 3rd St. N. W. H. L. Priage. Fabricating formica, any type of formica work, kitchen supplies.

### Helena

**Foleys Millwork Co.**, 1318 Boulder Ave. Michael F. Foley, president. Manufactures window sash, door and window frames, general millwork.

**Modern Woodcraft**, Box 1029. Thomas W. Patterson, owner. Manufactures door jambs, window frames, cabinets, and general millwork.

### Kalispell

**O'Neil Lumber Co.**, 424 Main St. DeWitt O'Neil, manager. Manufactures storm doors, windows and doors.

**Western Woodwork & Supply**, 1011 E. Idaho. Ivan O'Neil, manager. Manufactures window frames and cabinets, general millwork.

### Missoula

**Missoula White Pine Sash Co.**, 1500 Scott. F. K. Garrison, president. Manufactures windows, window and door frames, louver doors. General lumber and millwork.

**Treasure State Manufacturing Co.**, Box 839. Eugene H. Clawson. Manufactures doors and furniture stock.

### Sidney

**Sidney Millwork Co.**, Box 433. Clair Evanson, owner. Fabricated millwork.

## 2432 Veneer and Plywood Plants

### Columbia Falls

**Plum Creek Lumber Co.**, L. O. Rude, general manager.

### Kalispell

**C & C Plywood Corp.**, Route 1 Sunset Drive. Clay Thompson, manager.

**Veneers, Inc.**, Route 1. Veneer manufacturing.

### Missoula

**Von Evan Co.**, Highway 10 East. Frost Snyder, president. Manufactures plywood from larch, fir and spruce.

### Polson

**United States Plywood Corp.**, Box 1480. Paul Kennedy, manager. Manufactures interior and exterior plywood. Home office, 55 W. 44th St., New York 36, New York.

### Whitefish

**Cascade Machine Works**, Dave Potter, manager. Manufactures plywood and veneer. Studs listed under Industry No. 2421.

## 2433 Prefabricated Wooden Buildings and Structural Members

### Billings

**Americono Homes, Inc.**, Route 1. James D. Thompson, president. Manufactures custom built homes, roof trusses, farm buildings, church and commercial buildings.

### Bonner

**Anacondo Forest Products**, Robert E. Sheridan, general manager. Laminated trusses. ANACONDA branded on end of all lumber. Sawmill and planing mill listed under Industry No. 2421.

### Butte

**Rocky Mountain Homes**, 1621 Schley St. Neil Churchill, owner. Manufactures trusses, related items for building construction.

### Columbus

**Timberweld Manufacturing Co.**, Ralph Heiken, president and general manager. Manufactures laminated building beams.

### Gallatin Gateway

**Lumber Enterprises, Inc.**, F. J. Chesley, president and sales manager. Manufactures log buildings. Brand name "Modelog."

### Great Falls

**Cove-Lock Log Homes**, 2010 2nd Ave. S. W. Loren E. Lutzenhiser, Manufactures log buildings. Brand name "Cove-Lock."

**Grogan Robinson Lumber Co.**, Box 1419. Fred H. Robinson, president. Manufactures prefabricated homes, assembled trusses and pre-built garages and cabins. Brand name "Modern Way."

### Helena

**Quality Homes**, 1109 Birch. John J. Johnston, manager. Manufactures homes.

### Kalispell

**Kalispell Cabinet Works**, 128 2nd Ave. W. William F. Timm. Manufactures laminated beams and steel domes.

### Missoula

**Art Pine Lumber Co.**, Route 4, Highway 10 East. Arthur A. Pine, owner. Manufactures prefabricated homes, cabins and garages.

**Mission Homes, Inc.**, Box 1529. James Rother, Jr., president. Manufactures prefabricated homes.

**Panel Structures**, Box 1529. James Rother, Jr., president. Manufactures laminated beams.

**Rustic Homes**, 2516 Brooks. L. B. Osborne, owner. Manufactures prefabricated homes.

### Whitehall

**Rocky Mountain Homes**, 15 So. Whitehall. Neil Churchill, manager. Manufactures ceiling and floor trusses.

## 249 MISCELLANEOUS WOOD PRODUCTS

### 2491 Wood Preserving

#### Bigfork

**Fordik Post Co.**, Frank Fordik, manager. Pole and post treating plant.

#### Billings

**Coffman Lumber & Treating Co., Inc.**, Laurel Road. B. R. Coffman, Jr., owner. Manufactures treated fence posts, power poles and other treated lumber.

#### Bozeman

**Idaho Pole Co.**, Box 332. Glen Harrington, manager. Pole treating plant.

## MAJOR GROUP 25 — FURNITURE AND FIXTURES

### 251 HOUSEHOLD FURNITURE

#### 2511 Wood Household Furniture, Except Upholstered,

##### Anaconda

**Del-Ken Construction Co.**, 313 E. Commercial Ave. Ken Smith, manager. Manufactures wood cabinets and custom millwork. Listed under Industry No. 2431.

### Butte

**Montana Pole & Treating Plant**, Box 2004. Torger Oada, manager. Manufactures pressure treated wood products.

### Choteau

**Bouma Post Yard**, Box 955. Harold Bouma, manager. Pole and pole treating plant. Brand name "Penta Treated."

### Deborgia

**Riverside Post Co.**, James G. Amburs, manager. Cedar and other post and pole treating plant.

### Kalispell

**Creston Post & Pole Yard**, Route 4. Manufactures treated fence and carral posts.

**Kalispell Pole & Timber Co.**, Box 473. Manufactures treated posts and poles.

### Lincoln

**Blackfoot Forest Products Co.**, Herb Everhart, manager. Manufactures treated posts and poles.

**Bouma Post Yard**, Harold Bouma owner. Manufactures treated posts and poles.

### Philipsburg

**Granite Timber Treating Plant**, Wm. Metesch and John Heimark. Treating timber for mines, fence posts, power poles and studs.

### St. Regis

**Irwin Post & Pole Co.**, Dennis Irwin, manager. Cedar and other posts and pole treating plant.

### Stevensville

**Bass Creek Post & Pole Plant**, Ted McNinch, manager. Manufactures treated poles and posts.

### Townsend

**Henison Pole Plant**, Harold Henison, manager. Manufactures treated poles.

### Whitefish

**Turner Post Treating Plant**, Route 1. Clyde Turner. Manufactures treated posts and poles.

## 2499 Wood Products, Not Elsewhere Classified

### Helena

**Stobler Picket Co.**, Box 940. Howard Stahler, president. Manufactures laths, pickets, lumber and survey stakes.

### Missoula

**Missoula Prest-to-Logs Co.**, Box 1243. Robert K. Ford, general manager. Manufactures Prest-to-Logs and stoker fuel.

### Whitefish

**Brown Bros. Christmas Tree Yard**, Glen Brown. Christmas trees. Logging listed under Industry No. 2411.

### Billings

**Midwest Cabinet Co.**, Box 768. Orville Stene. Manufactures cabinets. Counters, frames and special millwork listed under Industry No. 2541.

**Rocky Mountain Furniture Co., Inc.**, Box 1013. K. O. Carlson, president. Manufactures unfinished drawers, desks, beds, headboards, sectional bookcases, tables, etc.



## Bozeman

**Edsall Construction Co.**, 718 No. 17th Ave. Wayne A. Edsall, owner. Manufactures household cabinets.

**W. D. Howells**, 522 Aspen. Manufactures household cabinets.

## Butte

**H. Fritz Apostel**, 3003 Amherst Ave. Fritz Apostel, manager. Manufactures custom cabinet work.

**Montana Building & Cabinet Co.**, 115 E. Broadway. A. H. Thomas. Manufactures cabinets and fixtures.

## Columbia Falls

**Renfrow Cabinet Works**, Box 66. Leo Renfrow. Cabinet work.

## East Helena

**Clyde's Cabinet Shop**, 418 Manlove. Clyde Francis, owner. Cabinet work.

## Great Falls

**Century Distribution**, 4108 3rd Ave. South. Paul Gemberling. Manufactures kitchen cabinets.

**Moderne Cabinet Shop**, 2304 No. River Drive. Raymond D. Shanahan. Manufactures custom cabinets. Listed under Industry No. 2541.

## Hamilton

**Simmons Cabinet Shop**, 1104 So. 4th St. Marshall D. Simmons, manager. Manufactures custom cabinets.

## Helena

**Joe's Cabinetry — Woodcraft**, 496 W. Main. Joseph C. Johnson, owner. Manufactures cabinets and wood furniture. Listed under Industry No. 2512.

**Modern Woodcraft**, Box 1029. Thomas W. Patterson, owner. Manufactures cabinets. Listed under Industry No. 2431.

**Yuhas Manufacturing Co.**, 2201 Hauser Blvd. Kenneth J. Yuhas, president. Manufactures cabinets, doors and partitions, tables, bars, etc. Manufactures "Kenwood School Furniture. Listed under Industry No. 2531.

## Kalispell

**Richard V. Bain Cabinet Shop**, 315 Harmony Road. Custom built kitchen cabinets, all types of woodwork.

**The Cabinet Shop**, 11 Meridian Road. Don Fry, manager. Manufactures cabinets.

**Western Woodwork & Supply**, 1011 E. Idaho. Ivan O'Neil, manager. Manufactures cabinets, window frames and millwork listed under Industry No. 2431.

## Missoula

**Buck Cabinet & Fixture Co.**, 443 Woodford St. Duane A. Buck. Manufactures wood cabinets.

**Fisher's Woodwork Shop**, 2309½ Grant St. H. C. Fisher. Manufactures cabinets and storm windows.

**Ray Jorgenson**, 1020 Burton. Manufactures cabinets.

**Modern Furniture Factory**, 129 W. Alder. J. K. Montgomery. Manufactures furniture and cabinets.

**Type-Write Desk Mfg. Co., Inc.**, 725 Ronan. Kenneth A. Blevins, president. Manufactures wood household furniture. Listed under Industry No. 2521.

## Polson

**West Shore Cabinet Shop**, Box 44. Cyril Eive, manager. Manufactures cabinets, counters, etc.

## 2512 Wood Household Furniture, Upholstered

### Bozeman

**Cass Mattress and Upholstery, Inc.**, 404 E. Babcock. Manufactures mattresses, upholstered furniture, canvas covers, car seat covers, and truck and tractor seats. Listed under Industry No. 2515.

### Hamilton

**Jacobs Furniture Co.**, 252 Main St. M. H. Jacobs, manager. Manufactures household furniture, platform rockers and swivel rockers. Brand name "Classic."

### Helena

**Joe's Cabinetry & Woodcraft**, 496 W. Main. Joseph C. Johnson, owner. Manufactures wood furniture. Listed under Industry No. 2511.

### Missoula

**Dahlgren's Upholstery**, 705 Ronan St. R. Dale Dahlgren, owner. Furniture upholstery, auto interiors, boat seats and tops.

**Home Service & Upholstery Co.**, 206 So. 3rd West. Russell Kerr. Furniture upholstery.

**Smith's Upholstery**, 616 Blaine. Wesley A. Smith, owner. Furniture upholstery.

## 2515 Mattresses and Bedsprings

### Bozeman

**Cass Mattress & Upholstery**, 404 E. Babcock. Ben Vail, manager. Manufactures mattresses and bedsprings. Listed under Industry No. 2512.

### Butte

**Chicago Furniture & Mattress Co.**, 300 No. Montana. Michael Micone, manager. Manufactures standard size and custom mattresses and bed springs.

### Great Falls

**Kynett's Mattress Factory**, 625 8th Ave. No. Clyde A. Kynett. Manufactures mattresses and bedsprings.

### Missoula

**Harris Mattress Service**, Route 4. Mary S. Harris, manager. Manufactures mattresses and box springs. Brand name "Harris Custom Built."

## 252 OFFICE FURNITURE

### 2521 Wood Office Furniture

#### Missoula

**Type-Write Desk Mfg. Co., Inc.**, 725 Ronan. Kenneth A. Blevins, president. Manufactures office furniture. Listed under Industry No. 2511.

## 253 PUBLIC BUILDINGS AND RELATED FURNITURE

### 2531 Public Building and Related Furniture Helena

**Yuhas Manufacturing Co.**, 2201 Hauser Blvd. Kenneth J. Yuhas, president. Manufactures "Kenwood School Furniture." Listed under Industry No. 2511.

### 254 PARTITIONS, SHELVING, LOCKERS, OFFICE AND STORE FIXTURES

#### 2541 Wood Partitions, Shelving, Lockers, Office and Store Fixtures

##### Billings

**Midwest Cabinet Co.**, Box 768. Orville Steen. Manufactures partitions, frames, and special millwork. Listed under Industry No. 2511.

##### Great Falls

**Moderne Cabinet Shop**, 2304 No. River Drive. Raymond D. Shanahan. Manufactures custom store fixtures and partitions. Listed under Industry No. 2511.

#### 2542 Metal Partitions, Shelving, Lockers, Office and Store Fixtures

##### Billings

**Northwest Fixture Co.**, 414 No. 3rd St. E. A. B. Gossard, president. Manufactures bank fixtures, food service equipment, wood and stainless steel equipment.

## 259 MISCELLANEOUS FURNITURE AND FIXTURES

### 2591 Venetian Blinds and Shades

##### Billings

**Jenkins Venetian Blind Co.**, Box 616. James E. Morley. Manufactures blinds and window shades.

**Snyder Venetian Blind Co.**, 4335 Montana Ave. Walter Martinson. Manufactures venetian blinds and window shades.

##### Butte

**Coombes Interiors**, 2035 Grand Ave. Earl L. Coombes, proprietor. Manufactures venetian blinds, shades and rods.

##### Helena

**Helena Venetian Blind & Shade Co.**, 712 Holback. Philip Braun, owner. Manufactures venetian blinds.

##### Missoula

**Drapery & Venetian Blind Co.**, 437 No. Higgins. Robert Boyer, owner. Manufactures drapery and venetian blinds. Listed under Industry No. 2391.

## MAJOR GROUP 26 — PAPER AND ALLIED PRODUCTS

### 261 PULP MILLS

#### 2611 Pulp Mills

##### Missoula

**Waldorf Hoerner Paper Products Co., Inc.**, Drawer D. N. H. Waldorf. Manufactures paper. Listed under Industry No. 2631.

### 263 PAPERBOARD MILLS

#### 2631 Paperboard Mills

## Missoula

Waldorf Hoerner Paper Products Co., Inc., Drawer D. N. H. Sandberg, president. Listed under Industry No. 2611.

## MAJOR GROUP 27 — PRINTING, PUBLISHING AND ALLIED INDUSTRIES

### 271 NEWSPAPERS: PUBLISHING, PUBLISHING AND PRINTING

#### 2711 Newspapers: Publishing, Publishing and Printing

## Big Sandy

The Mountaineer, L. W. Lawrence. Listed under Industry No. 2751.

## Big Timber

Big Timber Pioneer, Ray and Limont Beck, owners. Listed under Industry No. 2751.

## Billings

The Billings Times, 2919 Montana Ave. H. M. Morris, publisher. Listed under Industry No. 2751.

The Gazette Printing Co., 2701 Montana Ave. Don Anderson, president. "The Billings Gazette." Commercial printing listed under Industry No. 2751.

Western Livestock Reporter, Box 2559 Patrick K. Goggins. Commercial printing listed under Industry No. 2751.

## Boulder

Boulder Monitor, A. H. Eiselein. Commercial printing listed under Industry No. 2751.

## Bozeman

Gallatin County Tribune, Box 553, Ernest Schumacher, president. Also publish "Belgrade Journal." Commercial printing listed under Industry No. 2751.

The Gallatin Publishing Co., Box 145, Nicholas G. Hilt, III, president. "Bozeman Daily Chronicle." Commercial printing listed under Industry No. 2751.

## Broadus

Powder River County Examiner, Aubrey Larson. Commercial printing listed under Industry No. 2751.

## Browning

The Glacier Reporter, Nita Fields, owner. Commercial printing listed under Industry No. 2751.

## Butte

Montana Standard and Butte Daily Post, 25 W. Granite Ward Fleming, general manager. Commercial printing listed under Industry No. 2751.

## Cascade

Cascade Courier, R. C. Berger. Commercial printing listed under Industry No. 2751.

## Chester

Liberty County Times, Box 1, Irvin Hutchison, owner. Listed under Industry Nos. 2751 and 2793.

## Chinook

Chinook Opinion, Ted Johnson, owner. Commercial printing listed under Industry No. 2751.

## Choteau

Choteau Acantha, Richard Nordhagen, owner. Commercial printing listed under Industry No. 2751.

## Columbia Falls

Hungry Horse News, Mel Ruder, publisher. Commercial printing listed under Industry No. 2751.

## Columbus

Columbus News, A. C. Anderson. Commercial printing listed under Industry No. 2751.

## Conrad

Independent Observer, Chet Kavanagh, manager. Commercial printing listed under Industry No. 2751.

## Culbertson

The Searchlight, Box 68, Harry Downs, owner. Commercial printing listed under Industry No. 2751.

## Cut Bank

Cut Bank Pioneer Press, Frank A. and Daniel Whetson. Commercial printing listed under Industry No. 2751.

Western Breeze, Vern Munt, Jr. and Jim O'Day, Jr. Commercial printing listed under Industry No. 2751.

## Dillon

Dillon Daily Tribune-Examiner, Box 911 E. C. Townsend. Commercial printing listed under Industry No. 2751.

## Dutton

Wheat Center News, S. W. Hoglund, owner. Commercial printing listed under Industry No. 2751.

## Ekalaka

Eagle Publishing Co. Tom and Gladys Taylor.

## Fairfield

Fairfield Times, H. D. Cunningham, Sr., manager. Commercial printing listed under Industry No. 2751.

## Fairview

Fairview News, Earl Harden, owner. Commercial printing listed under Industry No. 2751.

## Forsyth

Forsyth Independent, D. J. McCausland, owner. Commercial printing listed under Industry No. 2751.

## Fort Benton

River Press Publishing Co., 1212 Front, J. F. Overholser. Commercial printing listed under Industry No. 2751.

## Froid

Froid Weekly, Mrs. Nita Fieseth. Commercial printing listed under Industry No. 2751.

## Glasgow

Glasgow Publishing Co., Box 151 Harold Burges, publisher. Commercial printing listed under Industry No. 2751.

## Great Falls

The Leader, Box 2468, Beecher Cushman. Commercial printing listed under Industry No. 2751.

Montana Farmer-Stockman, 510 1st Ave. North, Lester Cole, associate publisher.

The Tribune, Box 2468 Beecher Cushman. Commercial printing listed under Industry No. 2751.

## Hamilton

Ravalli Republican, 232 Main St. George Danker, manager. Commercial printing listed under Industry No. 2751.

Western News, 176 So. 2nd St. Miles Romney, manager. Commercial printing listed under Industry No. 2751.

## Hardin

Hardin Tribune Herald, Helen Peterson, owner. Commercial printing listed under Industry No. 2751.

## Harlem

The Harlem News, Ted Johnson, owner. Commercial print-

ing listed under Industry No. 2751.

## Harlowton

Harlowton Times & Ryegate Clarion, Harold G. publisher. Commercial printing listed under Industry No. 2751.

## Havre

Havre Daily News, Box 431 Alvin H. Ricken, publisher. Listed under Industry Nos. 2751 and 2793.

Hi-Line Publishing Co., 426 1st St. Harold Gunderson publisher. Publishes "Hi-Line Herald & Havre Independent," "Montana Independent," "Glasgow," and "The Outman," Great Falls Airforce Base. Commercial printing listed under Industry No. 2751.

## Helena

Montana Record Publishing Co., 317 Allen, Dave Billington, business manager. Publishes "Independent Record." Commercial printing listed under Industry No. 2751.

## Hinsdale

Hinsdale Tribune, Hormon Tuttle, manager. Commercial printing listed under Industry No. 2751.

## Jordan

Jordan Tribune, H. J. Sickles, editor.

## Kalispell

The Inter Lake Publishing Co., 410 1st Ave. W. Burl L. publisher. Commercial printing listed under Industry No. 2751.

Kalispell News, Box 19, Ed Trippet, publisher. Commercial printing listed under Industry No. 2751.

## Lewistown

Central Montana Publishing, 521 W. Main, Ken Alexander, general manager. Publishes "News-Argus." Listed under Industry Nos. 2751 and 2752.

## Livingston

The Livingston Enterprise, 120 No. Main, J. E. LeRossignol, business manager. Commercial printing listed under Industry No. 2751.

Park County News, Inc., 125 So. 2nd, Fred J. Martin, publisher. Commercial printing listed under Industry No. 2751.

## Malta

Phillips County News, J. R. Larcombe and Don Yeager, owners. Commercial printing listed under Industry No. 2751.

## Miles City

Star Printing Co., 13 No. 6th, S. G. Mrozla, proprietor. Listed under industry Nos. 2751, 2752 and 2793. Publishes "Miles City Star."

## Missoula

Missoulian-Sentinel, 500 No. Higgins Ave. Lloyd G. Schermer, publisher. Commercial printing listed under Industry No. 2751.

The Times, Inc., 230 W. Pine, Walter R. Larson, president. Commercial printing listed under Industry No. 2751.

## Philipsburg

The Philipsburg Mail, Dean A. Neitz. Commercial printing listed under Industry No. 2751.

## Polson

Treasure State Publishing, P. O. Box 1091, Paul Fugleberg, manager. Publishes "Flathead Courier." Commercial printing listed under Industry No. 2751.

## Poplar

The Poplar Standard, 100 Yankton Ave. Harry Downs, owner. Commercial printing listed under Industry No. 2751.



## Ronan

**Ronan Pioneer.** Ray Loman, manager. Commercial printing listed under Industry No. 2751.

## Roundup

**Roundup Record Tribune.** Box 38. A. W. Eiselein. Commercial printing listed under Industry No. 2751.

## Saco

**Saco Independent.** H. F. Tuttle, manager. Commercial printing listed under Industry No. 2751.

## Shelby

**Shelby Promoter.** Carol Kavanagh, owner. Commercial printing listed under Industry No. 2751.

**Shelby Times.** Lloyd Stinebaugh, owner. Commercial printing listed under Industry No. 2751.

## Sidney

**The Sidney Herald.** Box 1033. Clifford Urseth, manager. Commercial printing listed under Industry No. 2751.

## Stanford

**Judith Basin Press.** Mrs. Lee D. Larson, manager. Commercial printing listed under Industry No. 2751.

## Superior

**Mineral Publishing Co.** James R. Howell, editor. Publishes "Mineral Independent." Commercial printing listed under Industry No. 2751.

## Three Forks

**Three Forks Herald.** Lyle K. William, editor. Commercial printing listed under Industry No. 2751.

## Townsend

**Star Publishing Co., Inc.** George Brammer. Commercial printing listed under Industry No. 2751.

## Virginia City

**Madisonian.** Warren Reichman. Commercial printing listed under Industry No. 2751.

## Whitefish

**Valley Sport News.** Box 506. Blanche Conat.  
**The Whitefish Pilot.** Richard Adams, publisher. Commercial printing listed under Industry No. 2751.

## Whitehall

**Jefferson Valley News.** Path D. Martinson. Commercial printing listed under Industry No. 2751.

## Wibaux

**Wibaux Pioneer Gazette.** Mrs. Louise Sherman, manager. Commercial printing listed under Industry No. 2751.

## Winnett

**Winnett Times.** Box 176. R. G. Glatz, owner. Commercial printing listed under Industry No. 2751.

## Wolf Point

**Herald News.** Harry Downs, owner. Commercial printing listed under Industry No. 2751.

## 272 PERIODICALS: PUBLISHING, PUBLISHING AND PRINTING

### 2721 Periodicals: Publishing, Publishing and Printing

#### Dillon

**Beaverhead Printers.** Box 309. Jerry and Robert Hawkins, partners.

#### Great Falls

**Montana Oil Journal.** Box 2050. Al Raymond

## Helena

**Educational Co-op Publishing Co.,** 1205 Lockey. Mrs. Gretchen Billings, manager. Periodical "The People's Voice."

## Missoula

**Southern Universities Press.** Box 1441. R. B. Ammons. Edit and print two technical scientific periodicals at the University of Montana.

## 275 COMMERCIAL PRINTING

### 2751 Commercial Printing, Except Lithographic

#### Big Sandy

**The Mountaineer.** L. W. Lawrence. Listed under Industry No. 2711.

#### Big Timber

**Big Timber Pioneer.** Ray and Lamont Beck, owners. Listed under Industry No. 2711.

#### Billings

**The Billings Times.** 2919 Montana Ave. H. M. Morris. Listed under Industry No. 2711.

**Empire Printing, Inc.,** Box 3102. J. R. Reimel, president.

**The Gazette Printing Co.,** 2701 Montana Ave. Don Anderson, president. Listed under Industry No. 2711.

**Leedham & Laird Printing Co.,** 405 No. 24th St. Scott C. Leedham, Edward R. Laird, partners.

**Maynard Stationery Co.,** 3307 4th Ave. North. G. Dewey Maynard.

**Peterson Print Shop,** 2712 2nd Ave. North. Marion Peterson, owner.

**Reporter Printing & Supply,** 1402 1st Ave. North. C. L. E. Remington, president.

**Trott Printing Co.,** 2808 2nd Ave. North. Charlie T. Trott, president.

**Western Livestock Reporter,** Box 2559. Patrick K. Goggins. Listed under Industry No. 2711.

#### Boulder

**Boulder Monitor.** A. H. Eiselein. Listed under Industry No. 2711.

#### Bozeman

**The Artcraft Printers, Inc.,** Box 544. Harry C. Duntsch, president. Listed under Industry No. 2752.

**Gallatin County Tribune.** Box 553. Ernest Schumacher, president. Listed under Industry No. 2711.

**The Gallatin Publishing Co.,** Box 145. Nicholas G. Ifft, III, president. Listed under Industry No. 2711.

#### Broadus

**Powder River County Examiner.** Aubrey Larson. Listed under Industry No. 2711.

#### Browning

**The Glacier Reporter.** Nita Fields, owner. Listed under Industry No. 2711.

#### Butte

**Tom Greenfield, Inc.,** 223 E. Park. Tom Greenfield, owner.

**The Letter Shop.** 115 W. Broadway. William Dolan, owner. Listed under Industry No. 2752.

**McKee Printing Co.,** 138 W. Granite. W. H. McMillan, manager. Listed under Industry No. 2752.

**Montana Standard & Butte Daily Post.** 25 W. Granite. Ward Fleming, general manager. Listed under Industry No. 2711.

#### Cascade

**Cascade Courier.** R. C. Berger. Listed under Industry No. 2711.

## Chester

**Liberty County Times.** Box 1. Irvin Hutchison, owner. Listed under Industry Nos. 2711 and 2793.

## Chinook

**Chinook Opinion.** Ted Johnson, owner. Listed under Industry No. 2711.

## Choteau

**Choteau Acantha.** Richard Nordhagen, owner. Listed under Industry No. 2711.

## Columbia Falls

**Hungry Horse News.** Mel Ruder, publisher. Listed under Industry No. 2711.

## Columbus

**Columbus News.** A. C. Anderson. Listed under Industry No. 2711.

## Conrad

**Independent Observer.** Chet Kavanagh, manager. Listed under Industry No. 2711.

## Culbertson

**The Searchlight.** Box 68. Harry Downs, owner. Listed under Industry No. 2711.

## Cut Bank

**Cut Bank Pioneer Press.** Frank A. and Daniel Whetson. Listed under Industry No. 2711.

**Western Breeze.** Vern Munt, Jr. and Jim O'Day, Jr. Listed under Industry No. 2711.

## Dillon

**Dillon Daily Tribune-Examiner.** Box 911. E. C. Townsend. Listed under Industry No. 2711.

## Dutton

**Wheat Center News.** S. W. Haglund, owner. Listed under Industry No. 2711.

## Fairfield

**Fairfield Times.** H. D. Cunningham, Sr., manager. Listed under Industry No. 2711.

## Fairview

**Fairview News.** Earl Harden, owner. Listed under Industry No. 2711.

## Forsyth

**Forsyth Independent.** D. J. McCausland, owner. Listed under Industry No. 2711.

## Fort Benton

**River Press Publishing Co.,** 1212 Front. J. F. Overholser. Listed under Industry No. 2711.

## Froid

**Froid Weekly.** Mrs. Nita Fjeseth. Listed under Industry No. 2711.

## Glasgow

**Glasgow Publishing Co.,** Box 151. Harold R. Burges, publisher. Listed under Industry No. 2711.

## Great Falls

**A. A. Printers & Lithographers.** 212 7th St. North. John L. Soltész. Listed under Industry No. 2752.

**Electric City Printing Co.,** Box 2063. Bob Bennetts, manager. Listed under Industry No. 2752.

**Erick's Print Shop, Inc.,** 113 4th St. South. Edgar J. Erickson, president. Listed under Industry No. 2752.

**The Leader.** Box 2468. Beecher Cushman. Listed under Industry No. 2711.

**Pike Printing.** 1604 11th Ave. South, Dick Pike, listed under Industry No. 2752.

**The Tribune.** Box 2468, Beecher Cushman, listed under Industry No. 2711.

**Tribune Printing Supply.** Tribune Bldg., Beecher Cushman, Hamilton.

**Ravalli Republican.** 100 Main St., George Danker, manager, listed under Industry No. 2711.

**Western News.** 176 So. 2nd St., M. S. Romney, manager, listed under Industry No. 2711.

#### Hardin

**Hardin Tribune Herald.** Helena Peterson, owner, listed under Industry No. 2711.

#### Harlem

**The Harlem News.** Ted Johnson, owner, listed under Industry No. 2711.

#### Harlowton

**Harlowton Times and Ryegate Clarion.** Harold G. Stearns, publisher, listed under Industry No. 2711.

#### Havre

**Havre Daily News.** Box 431, Alvin H. Ricken, publisher, listed under Industry Nos. 2711 and 2793.

**Hi-Line Publishing Co.** 426 1st St., Harold Gunderson, publisher, listed under Industry No. 2711.

**Hill County Printing Co.** 524 1st St., Clyde D. Floren, manager, listed under Industry No. 2793.

#### Helena

**Montana Record Publishing Co.** 317 Allen, David R. Brington, business manager, listed under Industry No. 2711.

**The State Publishing Co.** 104 No. Broadway, Fred W. Naegle, president, listed under Industry No. 2752.

#### Hinsdale

**Hinsdale Tribune.** Harmon Tuttle, manager, listed under Industry No. 2711.

#### Kalispell

**The Inter Lake Publishing Co.** 410 1st Ave. West, Burl Lyons, publisher, listed under Industry No. 2711.

**Kalispell News.** Box 19, Ed Trippet, publisher, listed under Industry No. 2711.

**O'Neil Printers & Office Suppliers.** Louis Bain and Robert Robertson, listed under Industry No. 2752.

**Thomas Printing, Inc.** 317 1st Ave. E., Frank Thomas, listed under Industry No. 2752.

#### Lewistown

**Central Montana Publishing.** 521 W. Main, Ken Alexander, general manager, listed under Industry Nos. 2711, 2752.

#### Livingston

**The Livingston Enterprise.** 120 No. Main, J. E. LeRossignol, business manager, listed under Industry No. 2711.

**Park County News, Inc.** 125 So. 2nd, Fred J. Martin, publisher, listed under Industry No. 2711.

#### Malta

**Phillips County News.** J. R. Larcombe and Don Yeager, owners, listed under Industry No. 2711.

#### Miles City

**Star Printing Co.** 16 N. 6th S., G. Mrozla, proprietor, listed under Industry Nos. 2711, 2752 and 2793.

#### Missoula

**The Advertiser.** 1215 So. Higgins, Wellington Palmer, president.

**Missoulian-Sentinel.** 500 No. Higgins Ave., Lloyd G. Scher-

er, publisher, listed under Industry No. 2711.

**The Times, Inc.** 230 W. Pine, Walter R. Larson, president, listed under Industry No. 2711.

#### Philipsburg

**The Philipsburg Mail.** Dean A. Neitz, listed under Industry No. 2711.

#### Polson

**Treasure State Publishing.** P. O. Box 1091, Paul Fuglestad, manager, listed under Industry No. 2711.

**White's Printers.** Box 161, Clinton White, manager.

#### Poplar

**The Poplar Standard.** 100 Yankton Ave., Harry Downs, owner, listed under Industry No. 2711.

#### Ronan

**Ronan Pioneer.** Ray Loman, manager, listed under Industry No. 2711.

#### Roundup

**Roundup Record Tribune.** Box 38, A. W. Eiselein, listed under Industry No. 2711.

#### Saco

**Saco Independent.** H. F. Tuttle, manager, listed under Industry No. 2711.

#### Shelby

**Shelby Promoter.** Carol Kavanagh, owner, listed under Industry No. 2711.

**Shelby Times.** Lloyd Stinebaugh, owner, listed under Industry No. 2711.

#### Sidney

**The Sidney Herald.** Box 1033, Clifford Urseth, manager, listed under Industry No. 2711.

#### Stanford

**Judith Bosin Press.** Mrs. Lee D. Larson, manager, listed under Industry No. 2711.

#### Superior

**Mineral Publishing Co.** James R. Howell, editor, listed under Industry No. 2711.

#### Three Forks

**Three Forks Herald.** Lyle K. Williams, editor, listed under Industry No. 2711.

#### Townsend

**Star Publishing Co., Inc.** George Brammer, listed under Industry No. 2711.

#### Virginia City

**Madisonian.** Warren Reichman, listed under Industry No. 2711.

#### Whitefish

**The Whitefish Pilot.** Richard Adams, publisher, listed under Industry No. 2711.

#### Whitehall

**Jefferson Valley News.** Patti D. Martinson, listed under Industry No. 2711.

#### Wibaux

**Wibaux Pioneer Gazette.** Mrs. Louise Sherman, manager, listed under Industry No. 2711.

#### Winnett

**Winnett Times.** Box 176, R. G. Glatz, owner, listed under Industry No. 2711.

#### Wolf Point

**Herald News.** Harry Downs, owner, listed under Industry No. 2711.

### 2752 Commercial Printing, Lithographic

#### Billings

**A & I Rapid Print Co.** 517 No. 32nd, Ralph Adams, president.

**Hagen's Reproductions & Lithographs.** 213 No. 30th St., Reid L. & William J. Hagen, partners, listed under Industry No. 3953.

**Western Litho-Print, Inc.** 15 No. 27th St., Gail Nelson, president.

#### Bozeman

**The Artcraft Printers, Inc.** Box 544, Harry C. Dunst, president, listed under Industry No. 2751.

#### Butte

**Ashton Engraving.** 112 Hamilton, W. H. Chase, president, listed under Industry No. 2793.

**The Letter Shop.** 115 W. Broadway, William Dolan, owner, listed under Industry No. 2751.

**McKee Printing Co.** 138 W. Granite, W. H. McMurry, manager, listed under Industry No. 2751.

#### Great Falls

**A. A. Printers & Lithographers.** 212 7th St. North, John Soltesz, listed under Industry No. 2751.

**Electric City Printing Co.** Box 2063, Bob Bennetts, manager, listed under Industry No. 2751.

**Erick's Print Shop, Inc.** 113 4th St. South, Edgar J. Erickson, president, listed under Industry No. 2751.

**Pike Printing.** 1604 11th Ave. South, Dick Pike, listed under Industry No. 2751.

#### Helena

**Monitor Offset Printers.** 330 No. Jackson, Len A. Miller, listed under Industry No. 2751.

**The State Publishing Co.** 104 Broadway, Fred W. Naegle, president, listed under Industry No. 2751.

**Thurber Printing Co.** Park & Edwards Sts., Stanley E. Wilson, president, trade name "Stan Arts."

#### Kalispell

**O'Neil Printers & Office Suppliers.** Louis Bain and Robert Robertson, listed under Industry No. 2751.

**Thomas Printing, Inc.** 317 1st Ave. E., Frank Thomas, listed under Industry No. 2751.

#### Lewistown

**Central Montana Publishing.** 521 W. Main, Ken Alexander, general manager, listed under Industry Nos. 2711, 2751.

#### Miles City

**Star Printing Co.** 13 No. 6th S., G. Mrozla, proprietor, listed under Industry Nos. 2711, 2751, and 2793.

#### Missoula

**Delaneys Bureau of Printing.** 125 E. Front, L. D. Delaney, president.

**Mountain Press.** 281 W. Front, David P. Flaccus, owner.

### 279 SERVICE INDUSTRIES FOR THE PRINTING TRADE

#### 2793 Photoengraving

#### Billings

**Billings Engraving Co.** 16 So. 26th, Gordon M. Eiselein, owner.



## Butte

**Ashton Engraving**, 112 Hamilton. W. H. Chase, president. Listed under Industry No. 2752.

## Chester

**Liberty County Times**, Box 1. Irvin Hutchison, owner. Listed under Industry Nos. 2711 and 2751.

## Great Falls

**Great Falls Engraving Co.**, 309 1st Ave. So. Donald Becker.

## Havre

**Havre Daily News**, Box 431. Alvin H. Ricken, publisher.

## MAJOR GROUP 28 — CHEMICALS AND ALLIED PRODUCTS

### 281 INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS

#### 2813 Industrial Gases

##### Billings

**Hansen Carbonic Service**, 731 Lake Elmo Drive. Charles F. Emery, owner. Carbonic gas and dry ice.

**H. R. Oxygen Supply, Inc.**, 4310 State Ave. Ray F. Sederholm, president. Therapy oxygen and medical gases.

**Linde Company** (Division of Union Carbide Corp.), Box 270. Richard L. Wallace, manager. Manufactures chemicals.

**National Cylinder Gas**, 1041 Sugar Ave. Dave Ruth, manager. Manufactures medical and industrial gases.

##### Butte

**Linde Company**, 701 So. Warren. M. P. Merkle, manager. Manufactures oxygen and acetylene.

##### Missoula

**Industrial Air Products**, No. 2 Commerce St. Joe Galipeau. Manufactures oxygen, acetylene, nitrogen and carbon dioxide.

#### 2816 Inorganic Pigments

##### East Helena

**The Anaconda Company**, A. B. Kane, superintendent. Zinc oxide fume.

#### 2819 Industrial Inorganic Chemicals, not elsewhere Classified

##### Billings

**Montana Sulphur & Chemical Co.**, P. O. Box 1084 D. G. Zink, president. J. R. Butler, general manager. Manufactures sulphur and sulphuric acid.

##### Butte

**Victor Chemical Works**, Box 1966. H. F. Johnson, plant superintendent. Manufactures elemental phosphorus.

##### Hall

**Montana Phosphate Products Co.** Charles Noon, manager. Manufactures phosphate ore.

### 282 PLASTIC MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MAN-MADE FIBERS, EXCEPT GLASS.

#### 2821 Plastic Materials, Synthetic Resins, and Nonvulcanizable Elastomers

Listed under Industry Nos. 2711 and 2751.

**Hill County Printing Co.**, 524 1st St. Clyde D. Floren, manager. Listed under Industry No. 2751.

## Kalispell

**Montana Engraving**, 317 1st Ave. E. Frank Thomas. Zinc engravings, offset negatives and plates of all kinds.

## Miles City

**Star Printing Co.**, 13 North 6th. S. G. Mrozla, proprietor. Listed under Industry Nos. 2711, 2751 and 2752.

## Kalispell

**Riechold Chemicals, Inc.**, U. S. No. 2 at Fairgrounds. Al Lauritsen, manager. Adhesive used in the manufacture of interior plywood.

### 284 SOAP, DETERGENTS AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

#### 2842 Specialty Cleaning, Polishing, and Sanitation Preparations, Except Soap and Detergents

##### Billings

**Washum Products Co., Inc.**, 1022 Orchard Lane. Box 351. Ray Sutor, president. Manufactures hand cleaning and floor sweeping compounds, and deodorant blocks.

##### Corvallis

**Marsh Apiaries**, Howard Marsh, manager. Beeswax. Listed under Industry No. 2099.

**Pile Apiaries**, James Pile, manager. Beeswax. Listed under Industry No. 2099.

##### Ennis

**Child Sell**, Beeswax. Listed under Industry No. 2099.

**J. P. McDaniel**, Box 161. Beeswax. Listed under Industry No. 2099.

##### Glasgow

**Northern Bloom Honey Co.** Faxton E. Castleberry. Beeswax. Listed under Industry No. 2099.

##### Helena

**Al and Ted's Honey Shop**, North of Helena. Al and Ted Chernovick, owners. Beeswax. Listed under Industry No. 2099.

##### Lewistown

**Foster Apiarist, Inc.** Donald Foster, manager. Beeswax. Listed under Industry No. 2099.

##### Malta

**Bancroft Apiaries**, 174 Main St., Box 132. George Bancroft, owner. Beeswax. Listed under Industry No. 2099.

##### Manhattan

**Cloverdale Apiaries**, Carl Christenson and George Ballantyne. Beeswax. Listed under Industry No. 2099.

##### Missoula

**B-Dri Company**, 438 W. Kent. Howard Schmid, owner. Manufactures leather preservative and scent inhibitor.

##### Sheridan

**Wind River Honey Co.** Schaeffer and Krause, owners. Beeswax. Listed under Industry No. 2099.

## Twin Bridges

**Bowen-Wilson Honey Producers**. Beeswax. Listed under Industry No. 2099.

## Wolf Point

**Honeyland Apiaries**, Harry Rodenberg, owner. Beeswax. Listed under Industry No. 2099.

### 285 PAINTS, VARNISHES, LACQUERS, ENAMELS AND ALLIED PRODUCTS

#### 2851 Paints, Varnishes, Lacquers and Enamels

##### Billings

**Consumers Paint Manufacturing Co.**, 12 North 35th. Harry H. Herzog. Manufactures paint and enamels.

##### East Helena

**American Chemet Corp.** William Porter, Sr., manager. Manufactures baghouse fume (zinc products used as paint base). Listed under Industry Nos. 3295 and 3333.

##### Helena

**Columbia Paint Co.**, Box 1704. L. Hoyt Larson, president. Manufactures paints, varnishes, lacquers and enamel. Brand name 'Columbia Paints'.

### 286 GUM AND WOOD CHEMICALS

#### 2861 Gum and Wood Chemicals

##### Pablo

**Big Bear Inc. of Montana**, Jerry Mushel, manager. Manufactures charcoal briquets.

### 287 AGRICULTURAL CHEMICALS

#### 2871 Fertilizers

##### Fairfield

**GTA Fertilizer Plant**, Ross Peace, manager. Custom blend fertilizer.

##### Somers

**Montana Salvage, Inc.** Ken Bailey, president. Manufactures fertilizer from decomposed forest products. Brand name 'Mont-Organic'.

##### Three Forks

**Three Forks Manufacturing Co.** Jim Hayden, manager. Natural fertilizer.

#### 2872 Fertilizers, Mixing Only

##### Fairview

**Fairview Bulk Fertilizer Plant**.

##### Hamilton

**Bitter Root Irrigation & Fertilizer Co.** John Parker, manager.

##### Sidney

**Peavy Company**, Pat De Vour, manager.

#### 2879 Agricultural Chemicals, not elsewhere Classified

##### Hamilton

**Peat Pack, Inc.** Michael Driscoll, manager. Natural peat fertilizer. Brand name 'Peat Pack'.

### 289 MISCELLANEOUS CHEMICAL PRODUCTS

## 2891 Glue and Gelatin

### Kalispell

**Riechold Chemicals, Inc.,** U. S. Nat. Pat. Fairground. A. L. Smith, manager. Adhesive used in the manufacture of interior plywood. Listed under Industry No. 2821

## 2899 Chemicals and Chemical Preparations, not elsewhere Classified

### Billings

**Building Specialties, Inc.,** 903 Ted Addison, Concrete, admixtures and mortars. Trade name "Spec".

**Quality Control Lab.,** 114 No. 28th, Don Dedeker and James H. Gier, proprietors. Reagents.

### Columbia Falls

**Holiday Ranch, Inc.,** 1111 B. Fine. Large and intense.

## MAJOR GROUP 29 — PETROLEUM REFINING AND RELATED INDUSTRIES

### 291 PETROLEUM REFINING

#### 2911 Petroleum Refining

##### Billings

**Continental Oil Co.,** Box 144, T. Z. Zelen, manager. Gasoline, fuel oil, kerosene, diesel oil, jet fuel. Listed under Industry No. 2911.

**Humble Oil & Refining Co.,** P. O. Box 1163, I. J. Staid, manager. Manufactures gasoline, fuel oil, jet fuel. Listed under Industry Nos. 2951 and 2952.

**John Wight, Inc.,** 1000 Heiden Blvd. John Wight, president. Gasoline, fuel oil, stove oil, jet fuel, etc.

##### Chinook

**Diamond Asphalt Co.,** Box 691, Max D. Nielsen, general manager. Fuel oils. Listed under Industry No. 2951.

##### Cut Bank

**Union Oil Company of California,** Box 298, W. P. Barber, superintendent of plants. Manufactures "Royal 76," 7600 and White 76" gasolines, "Union" stove oil and diesel fuel.

##### Great Falls

**Phillips Petroleum Co.,** Box 1239, Paul Endacott, president. Manufactures gasoline, jet fuel, road oils, asphalt, distillate and residual fuel oils.

##### Kevin

**Big West Oil Company,** Dan J. Mullady, manager. Manufactures all types of petroleum products.

##### Shelby

**North Star Refining Co.,** Box 873, Albert Rooth, manager. Manufactures jet fuel, gasoline and stove oil.

##### Wolf Point

**Tex-Star Petroleum Co.,** Robert Armstrong, general manager. Earl A. Krey, sales manager. W. E. Rust, plant operations manager. Manufactures jet fuel, diesel fuels, fuel oil, white gas, kerosene and residual oils. Plant capacity 1500 barrels per day.

## 295 PAVING AND ROOFING MATERIALS

### 2951 Paving Mixtures and Blocks

#### Billings

**Continental Oil Co.,** Box 2548, J. T. Zeien, manager. Man-

ufactures road oils and asphalts. Listed under Industry No. 2911.

#### Chinook

**Diamond Asphalt Co.,** Box 691, Max D. Nielsen, general manager. Manufactures road oils. Listed under Industry No. 2911.

### 2952 Asphalt Felts and Coatings

#### Billings

**Humble Oil & Refining Co.,** P. O. Box 1163, I. J. Staid, manager. Manufactures asphalt. Listed under Industry Nos. 2911 and 2952.

## MAJOR GROUP 30 — RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

### 307 MISCELLANEOUS PLASTICS PRODUCTS

#### 3079 Miscellaneous Plastics Products

##### Ashland

**Guild Arts & Crafts, Inc.,** P. O. Box 137, John Seidel, manager. Manufactures miscellaneous plastic products.

## MAJOR GROUP 31 — LEATHER AND LEATHER PRODUCTS

### 311 LEATHER TANNING AND FINISHING

#### 3111 Leather Tanning and Finishing

##### Great Falls

**Beckman Bros., Inc.,** Box 1648, Al Beckman, president. Listed under Industry Nos. 3371, 3141 and 3151.

### 314 FOOTWEAR, EXCEPT RUBBER

#### 3141 Footwear, Except House Slippers and Rubber Footwear

##### Great Falls

**Beckman Bros., Inc.,** Box 1648, Al Beckman, president. Manufactures moccasins. Listed under Industry Nos. 2371, 3111 and 3151.

### 315 LEATHER GLOVES AND MITTENS

#### 3151 Leather Dress, Semi-Dress and Work Gloves

##### Great Falls

**Beckman Bros., Inc.,** Box 1648, Al Beckman, president. Manufactures leather gloves, moccasins, fur coats and accessories. Listed under Industry Nos. 3111, 2371, 3141.

### 317 HANDBAGS AND OTHER PERSONAL LEATHER GOODS

#### 3171 Women's Handbags and Purses

##### Browning

**Bell Saddlery Shop,** Ronald Bell, owner. Manufactures handbags, wallets, belts, saddles and pack saddles. Listed under Industry Nos. 3172 and 3199.

##### Columbus

**Columbus Saddle & Shoe Shop,** George Kiehl, manager. Manufactures handbags and saddles. Listed under Industry No. 3199.

**Pepco-Chemical,** 1525 Lockwood Road, Box 76, H. Mahan, president. Manufactures "Pepco" road asphalts.

## 299 MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL

### 2992 Lubricating Oils and Greases

#### Billings

**Humble Oil & Refining Co.,** P. O. Box 1163, I. J. Staid, manager. Manufactures lube oil. Listed under Nos. 2911 and 2952.

#### Great Falls

**Industrial Plastics, Inc.,** 10th Ave. So. & River Rd. Soter. Manufactures plastic swimming pools.

#### Sidney

**Linton Corporation,** A. Delmer Earl, general manager. Manufactures fiberglass burial vaults and miscellaneous plastics. Listed under Industry No. 3272.

#### Ekalaka

**Dick's Shop,** Dick Stewart, owner. Manufactures wallets, purses and belts.

#### Miles City

**Wilson Coggshall Saddlery,** 609 Main St. C. C. Wilson, president. Manufactures handbags, billfolds, key chains and saddles. Listed under Industry Nos. 3172 and 3199.

#### Valier

**Aaerge Leather Shop,** Arnet Aaerge, owner. Manufactures handbags, wallets and saddles. Listed under Industry Nos. 3172 and 3199.

#### Wolf Point

**Wolf Point Saddlery,** Box 464, Eugene Martin, owner. Manufactures handbags, billfolds, belts and saddles. Listed under Industry Nos. 3172 and 3199.

### 3172 Personal Leather Goods, Except Handbags and Purses

#### Browning

**Bell Saddlery Shop,** Ronald Bell, owner. Manufactures saddles and pack saddles, handbags, wallets and belts. Listed under Industry Nos. 3171 and 3199.

#### Miles City

**Wilson Coggshall Saddlery,** 609 Main St. C. C. Wilson, president. Manufactures saddles and all types of leather goods. Maker of the original Coggshall saddle. Listed under Industry Nos. 3171 and 3199.

#### Valier

**Aaerge Leather Shop,** Arnet Aaerge, owner. Manufactures wallets, handbags and saddles. Listed under Industry Nos. 3171 and 3199.

#### Wolf Point

**Wolf Point Saddlery,** Box 464, Eugene Martin, owner. Manufactures billfolds, saddles and belts. Listed under Industry Nos. 3171 and 3199.



### 319 LEATHER GOODS, NOT ELSEWHERE CLASSIFIED

#### 3199 Leather Goods, not elsewhere Classified

##### Big Timber

**Roy Gteller Saddlery & Repair.** Manufactures saddlery and surveying instrument cases.

##### Bonner

**Ruana Knife Works.** Box 574 Rudolph H. Ruana, owner. Manufactures leather craft. Listed under Industry Nos. 3421 and 3423.

##### Browning

**Bell Saddlery Shop.** Ronald Bell, owner. Manufactures saddles and pack saddles. Listed under Industry Nos. 3171 and 3172

##### Columbus

**Columbus Saddle and Shoe Shop.** George Kiehl. Manufactures saddles. Listed under Industry No. 3171.

##### Great Falls

**Ario's Saddle Shop.** Box 1937. Orland M. Oakland and H. Earl Haggerty, managers. Manufactures saddles, chaps, bridles, halters, pack saddles, hobbles, saddle bags and carved dress belts. Brand name "Ario."

##### Helena

**Buck's Work & Ranchwear.** 133 No. Main St. Manufactures saddles.

**DeVore's Saddlery.** 4 W. Lawrence. Manufactures saddles

##### Lewistown

**Modern Saddle Shop.** Dan McDonald, manager. Saddles and saddle repair.

**Toomey Shoe & Saddle Shop.** T. F. Taamey, manager. Saddle and saddle repair.

##### Miles City

**Wilson Coggshall Saddlery.** 609 Main St. C. C. Wilson, president. Manufactures saddles and all types of leather goods. Maker at the original Coggshall saddle. Listed under Industry Nos. 3171 and 3172.

##### Missoula

**Stewart's Saddlery.** 1102 W. Broadway. Paul and Bud Lake, owners. Saddles, halters and other custom leather work.

##### Valier

**Aaberge Leather Shop.** Arnet Aaberge, owner. Manufactures saddles and other leather goods. Listed under Industry Nos. 3171 and 3172

##### Wolf Point

**Wolf Point Saddlery.** Box 464 Eugene Martin, owner. Manufactures saddles, belts and other leather goods. Listed under Industry Nos. 3171 and 3172.

## MAJOR GROUP 32 — STONE, CLAY AND GLASS PRODUCTS

### 323 GLASS PRODUCTS, MADE OF PURCHASED GLASS

#### 3231 Glass Products, Made of Purchased Glass Billings

**Yellowstone Glass Co.** 224 N. 13th St. C. W. Allen, president. Mirrors.

### 324 CEMENT, HYDRAULIC

#### 3241 Cement, Hydraulic

##### Montana City

**Kaiser Cement Gypsum Corp.** Manufactures cement. Paul J. Deutschman, plant manager, Douglas Ashton, sales manager, Douglas Moore, administrative manager.

##### Trident

**Ideal Cement Co.** Fred Bauer, superintendent. Manufactures hydraulic cement.

### 325 STRUCTURAL CLAY PRODUCTS

#### 3251 Brick and Structural Clay Tile

##### Billings

**The Lovell Clay Products Co.** 1312 Lockwood Road. R. E. Stewart, vice president. Manufactures common brick, lace brick, glazed brick, glazed tile, structural clay tile, salar screen tile and drain tile.

##### Lewistown

**Lewistown Brick & Tile.** Box 573. John Gretencort, manager. Manufactures brick and tile.

### 326 POTTERY AND RELATED PRODUCTS

#### 3269 Pottery Products, not elsewhere Classified

##### Butte

**Skenders Ceramics.** 1127½ Utah. Mary Skender, propri-

etor. Ceramics.

##### Cardwell

**Montana Pottery Co.** Wesley Van Gorden, owner. Manufactures clay pottery in natural color. Brand name "Clays in Calica."

##### Helena

**Mrs. John W. Standley.** 1738 Euclid. Manufactures cement pottery. Brand name "Ottas."

### 327 CONCRETE, GYPSUM AND PLASTER PRODUCTS

#### 3271 Concrete Brick and Block

##### Billings

**Concrete Products Co., Inc.** 3044 Hesper Road. Elmer S. Cormier, manager. Manufactures building blocks. Listed under Industry No. 3272

**Montana Lightweight Aggregate Co.** 3044 Hesper Road. Keith Brown, president. Manufactures cement and aggregate building blocks. Listed under Industry Nos. 3272, 3295.

**Northside Lumber & Coal Yard.** 1111 6th Ave. North. Joe Birrer, manager. Manufactures concrete blocks for building, foundation, walks, patios, etc.

**Paganini Concrete Products.** 611 No. 15th St. Valentine Paganini, owner. Manufactures tombstones and all concrete products.

##### Great Falls

**Fagenstrom & Son.** 11 Prospect Drive. Joe Fagenstrom. Manufactures precast concrete steps and blocks.

**Treasure State Industries, Inc.** Box 1358. J. Brad Seely, president. Manufactures "Treasure Lite" blocks. Listed under Industry No. 3272

##### Havre

**Havre Concrete Block Co.** L. F. Bogut, owner. Manu-

factures concrete blocks. Listed under Industry No. 3272.

##### Kalispell

**Glacier Concrete & Metal Pipe Co.** 1702 5th Ave. East. Lester R. Truman, owner. Manufactures bricks and blocks. Listed under Industry Nos. 3272 and 3444.

##### Missoula

**Montana Concrete Pipe Co.** Box 613. Brad Seely, president. Manufactures stone blocks and concrete blocks. Listed under Industry No. 3272

##### Polson

**Olsen Concrete Products.** Box 355. R. A. Olsen, manager. Manufactures building blocks and cement panels.

##### Three Forks

**Builders Products, Inc.** George E. Kanta, president. Manufactures concrete blocks.

##### Whitefish

**Whitefish Block Shop.** Box 961. Howard D. Hamilton. Manufactures concrete blocks.

### 3272 Concrete Products, Except Brick and Block Billings

**A & A Concrete Lawn Ornaments.** 11099 Highway 10 East. Ray D. Alkire. Manufactures concrete lawn ornaments.

**Concrete Products Co., Inc.** 3044 Hesper Road. Manufactures precast concrete, and wall reinforcement. Listed under Industry No. 3271

**Elk River Concrete Products Co. of Montana.** Box 730. Manufactures concrete pipe, and precast bridge decks.

**Langs Cemetery Service.** Box 366. Jack C. Lang. Manufactures concrete burial vaults and concrete grave boxes.

**Montana Lightweight Aggregate Co.** 3044 Hesper Road. Keith Brown, president. Manufactures precast cement or concrete beams. Listed under Industry Nos. 3271, 3295.

**United Prestress, Inc.** Box 3101. Robert F. Poppin, president. Manufactures prestressed concrete building members.

##### Butte

**Montana Concrete Pipe.** West of Butte. Bud Green, manager. Manufactures concrete pipe, curbing, right-of-way markers, guard rail posts and other moulded products.

##### Fairfield

**Sands Construction.** Danny Sands, manager. Manufactures ready mix concrete and concrete burial vaults.

##### Great Falls

**Elk River Concrete Products Co. of Montana.** 3rd & 5th Ave. SW. Ralph Svedahl, superintendent.

**Montana Granite Industries.** 1010 1st Ave. South. Jack A. Rummel, president. Manufactures concrete burial vaults. Listed under Industry No. 3281.

**Treasure State Industries, Inc.** Box 1358. J. Brad Seely, president. Manufactures concrete pipe. Listed under Industry No. 3271.

**United Prestress.** Box 990. Robert F. Pappin, general manager. Manufactures reinforced building concrete.

##### Havre

**Havre Concrete Block Co.** L. F. Bogut, owner. Manufactures concrete vaults. Listed under Industry No. 3271.

##### Helena

**Elk River Concrete Products Co.** 502 Power Block. Dewey S. Wright, president. Manufactures "Cretex" culverts, man-

hole covers and frame. See highway structure.

### Kalispell

**Glacier Concrete & Metal Pipe Co.**, 1702 5th Ave. East, Lester R. Truman, owner. Manufactures concrete pipe, sewers, manholes, curbing, etc. Listed under Industry Nos. 3271 and 3444.

### Missoula

**Montana Concrete Pipe Co.**, Box 613, Brad Seely, president. Manufactures concrete pipe. Listed under Industry No. 3271.

### Ramsay

**National Burial Vault**, Cecil Davisson, owner. Manufactures concrete burial vaults.

### Sidney

**Linlon Corporation**, A Delmer Earl, general manager. Manufactures fiberglass burial vaults. Listed under Industry No. 3079.

## 3273 Ready Mixed Concrete

### Anaconda

**Tri-City Concrete, Inc.**, V. J. Schultz and Charles Nicely. Listed under Industry No. 3295.

### Ashland

**Lenyard Ready Mix**, Carl Lenyard, manager. Listed under Industry No. 3295.

### Big Timber

**Robert L. McKenzie**, listed under Industry No. 3295.

### Billings

**Hitz Construction Co.**, 2111 4th Ave. North, Adam H. Hitz, president.

**Midland Materials Co.**, 748 So. 24th West, Malcolm G. Long, president. Listed under Industry No. 3295.

**Borrie O'Leary, Inc.**, 215 No. 16th St., Agnes O'Leary, president. Listed under Industry No. 3295.

### Bozeman

**Bestway Building Center**, 501 East Main.

**Kenyon-Noble Lumber Co.**, 25 E. Mendenhall, William V. Ogle, manager.

**Pioneer Ready Mix, Inc.**, North 7th Ave., Buford K. Jelme, general manager. Listed under Industry No. 3295.

### Browning

**House Ready Mix Co.**, Wesley House, manager. Listed under Industry No. 3295.

### Butte

**Continental Concrete Co.**, Continental Drive, Ed Mazzoline, general manager.

**Pioneer Concrete and Fuel Co.**, 843 Maryland, John Hall, president.

**Tierney Bros. Ready Mix Concrete**, 701 Centennial Ave. Listed under Industry No. 3295.

### Chester

**Monarch Lumber Company**.

### Choteau

**Richem & Sons**, Mrs. John Richem, manager.

### Conrad

**Bestway Lumber Co.**, William Johnson, manager.

**Rocky Mountain Quick Mix Co.**, Laurence Stoetzel, manager.

### Cut Bank

**Central Pre-Mix, Inc.**, Box 1274, A. E. Sheridan, president.

**Cut Bank Sand & Gravel**, Roy Shelby, manager. Listed under Industry No. 3295.

### Dillon

**Beaverhead Concrete**, Box 859, Edward Judd, owner.

**Durant Sand & Gravel**, Rural Route, U. W. Durant, owner.

### Fairfield

**Sands Construction**, Danny Sands, manager. Listed under Industry No. 3272.

### Forsyth

**Forsyth Lumber Company**.

### Fort Benton

**Tarbet Sand & Gravel**, Lee Tarbet. Listed under Industry No. 3295.

### Glasgow

**Fossum Ready-Mix**, 730 5th Ave. North, Orval Fossum. Listed under Industry No. 3295.

**Glasgow Ready-Mix Concrete**, Box 628, Byron Tressler, manager. Listed under Industry No. 3295.

### Great Falls

**Concrete Service, Inc.**, 1000 11th Ave. No., William Lewis. Listed under Industry No. 3295.

**Great Falls Ready Mix**, 925 Riverdrive South, Glen A. Mortensen, manager.

**Floyd Pappin & Son, Inc.**, 2100 9th Ave. North. Listed under Industry No. 3295.

### Hamilton

**Bitterroot Ready Mix**, Box 132, Robert Chamberlain and Phil Jacobson.

**Donaldson's Ready Mix**, C. F. Donaldson, manager. Listed under Industry No. 3295.

### Havre

**Havre Ready Mix Concrete Co.**, Box 1431, Otto, William and James Baltrusch, partners.

### Helena

**Tressler-Lowe Ready Mix Concrete**, Box 914, L. Melvin Lowe, manager. Listed under Industry No. 3295.

### Kalispell

**McElroy & Wilken Ready Mix**, Route 1, Floyd McElroy & Fred Wilken. Listed under Industry No. 3295.

### Lewistown

**Lewistown Ready-Mix**, Box 898, Ralph Hartin, manager. Listed under Industry No. 3295.

**McDonald Ready Mix Concrete**, Box 390, J. C. McDonald, manager. Listed under Industry Nos. 3295 and 3299.

### Livingston

**Eggar Construction Service**, Box 425. Listed under Industry No. 3295.

### Malta

**LaFond Construction Co.**, Gaylord LaFond, owner. Listed under Industry No. 3295.

### Miles City

**Miles City Ready Mix**, 8th & Atlantic Ave., Howard Anderson, proprietor.

### Missoula

**King Concrete**, 1600 River Road, Chuck Collins, assistant manager. Listed under Industry No. 3295.

**M & S Ready Mix**, 1601 South Ave., W. H. L. Morgenstern, manager. Listed under Industry No. 3295.

### Polson

**Ready Mix Concrete Co.**, Harry Miller and Charles. Listed under Industry No. 3295.

### Sidney

**Sidney Red-E-Mix Co.**, Box 788, Robert Moran, manager. Listed under Industry No. 3295.

### Stevensville

**C. & W. Construction & Mfg. Co., Inc.**, George Ch. manager. Listed under Industry No. 3295.

### Townsend

**Neifert & White Ready-Mix**.

## 3275 Gypsum Products

### Lewistown

**United States Gypsum Co.**, Heath Star Route, B. I. W. manager. Sheetrock, rock lath, red top plaster.

## 328 CUT STONE AND STONE PRODUCTS

### 3281 Cut Stone and Stone Products

### Bozeman

**Bozeman Granite Works**, 428 No. 7th Ave., Harold E. H. manager. Stone monuments.

**Gallatin Monumental Co.**, 414 Wilda Lane, Norman Thurston. Stone monuments.

### Butte

**Trevillion-Johnson Memorials Co.**, 2400 So. Montana, Mrs. June M. Johnson, president. Cemetery Memorials and fabricated marble and granite buildings.

### Great Falls

**Montana Granite Industries**, 1010 1st Ave. South, Jack A. Rummel, president. Headstones. Listed under Industry No. 3272.

**Montana Stone Corp.**, P. O. Box 2750, Joe Forzley. Stone, brick and masonry.

### Helena

**Montana Stone, Inc.**, 2121 Walnut, John Birkett, manager. Slate stone.

**Rummel Monumental Works**, Route A, Jack A. Rummel, owner. Cutting tombstones, guardian concrete vaults.

### Kalispell

**Kalispell Stone & Marble**, Holt Stoge, Melvin B. Lytle, manager. Headstones.

### Livingston

**Livingston Marble & Granite Works**, 711 East Park, C. E. Ayres, proprietor. Manufactures memorials, ashlar or polished Montana travertine building stone, and by-product chips of Montana travertine.

### Missoula

**Garden City Granite Co.**, 114 W. Spruce, Mark Stotler. Lettering and engraving headstones. Listed under Industry No. 3911.

**Western Montana Marble & Granite Co.**, 305 So. 4th East, Harry & Mark Stettler, owners. Monuments and memorials, engraving.

### Polson

**Dick's Agate Shop**, Dick Kinton, owner. Cut stone and stone furniture. Listed under Industry No. 3911.



### 329 ABRASIVE, ASEESTOS, AND MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS

#### 3295 Minerals and Earths, Ground or Otherwise Treated

##### Anaconda

**S & N Construction Co.**, Box 1137. V. J. Schultz and Charles Nicely. Sand and gravel.

**Tri-City Concrete, Inc.** V. J. Schultz and Charles Nicely. Sand and gravel. Listed under Industry No. 3273

##### Ashland

**Lenyard Ready Mix.** Carl Lenyard, manager. Sand and gravel. Listed under Industry No. 3273

##### Big Timber

**Robert L. McKenzie.** Sand and gravel. Listed under Industry No. 3273.

##### Billings

**Midlands Materials Co.**, 748 So. 24th W. Malcolm G. Long, president. Sand and gravel. Listed under Industry No. 3273.

**Barry O'Leary, Inc.**, 215 No. 16th St. Agnes O'Leary, president. Sand and gravel. Listed under Industry No. 3273.

**Montana Lightweight Aggregate Co.**, 3044 Hesper Road. Keith Brown, president. Expanded shale. Listed under Industry Nos. 3271 and 3272

##### Bozeman

**Pioneer Ready Mix, Inc.**, North 7th Ave. Buford K. Jelme-land, general manager. Sand and gravel. Listed under Industry No. 3273

##### Browning

**House Ready Mix Co.** Wesley House, manager. Sand and gravel. Listed under Industry No. 3273.

##### Butte

**Tierney Bros. Ready Mix Concrete**, 701 Centennial Ave. W. J. Tierney, manager. Sand and gravel. Listed under Industry No. 3273.

##### Conrad

**Engstrand & Hicks Co.**, 707 Sunset Blvd. Vernon Engstrand, manager. Sand and gravel.

**Grubb Sand & Gravel.** William Grubb, manager. Sand and gravel.

##### Cut Bank

**Cut Bank Sand & Gravel.** Roy Shelby, manager. Sand and gravel. Listed under Industry No. 3273.

**Frenchy's Sand & Gravel**, 29 4th Ave. S.W. Ed Fauque. Sand and gravel.

##### Dillon

**Tri-State Minerals, Inc.** Thomas McGovern, manager. Talc used in paint, tile and cosmetics.

##### East Helena

**American Chemet Corp.** William Porter, Sr., manager. Roofing chips and terrazzo chips used in tile products. Listed under Industry Nos. 2851 and 3333.

##### Ekalaka

**Parks Brothers.** Dean and Vernon Parks. Sand and gravel.

##### Fort Benton

**Tarbet Sand & Gravel.** Lee Tarbet. Sand and gravel. Listed under Industry No. 3273.

##### Glasgow

**Fossum Ready-Mix**, 730 5th Ave. North. Orval Fossum.

Sand and gravel. Listed under Industry No. 3273.

**Glasgow Ready-Mix Concrete**, Box 628. Byron Tressler, manager. Sand and gravel. Listed under Industry No. 3273.

##### Great Falls

**Concrete Service, Inc.**, 1000 11th Ave. North. William Lewis. Sand and gravel. Ready mix concrete listed under Industry No. 3273.

**Floyd Pappin & Son, Inc.**, 2100 9th Ave. North. Sand and gravel. Listed under Industry No. 3273.

##### Hamilton

**Donaldson's Ready Mix.** C. F. Donaldson, manager. Sand and gravel. Listed under Industry No. 3273.

##### Helena

**Tressler-Lowe Ready Mix Concrete**, Box 914. L. Melvin Lowe, manager. Sand and gravel. Listed under Industry No. 3273.

##### Hungry Horse

**Hungry Horse Sand & Gravel, Inc.** Harold Rucker, president. Sand and gravel.

##### Kalispell

**Engelbreton Gravel, Inc.**, 1200 E. Oregon. Phillip O. Peterson, manager. Sand and Gravel.

**McElroy & Wilken Ready Mix.** Route 1. Floyd McElroy and Fred Wilken. Sand and gravel. Listed under Industry No. 3273.

##### Lewistown

**Lewistown Ready-Mix.** Box 898. Ralph Hartin, manager. Sand and gravel. Listed under Industry No. 3273.

**McDonald Ready Mix Concrete.** Box 390. J. C. McDonald, manager. Sand and gravel. Listed under Industry Nos. 3273 and 3299.

##### Livingston

**Eggar Construction Service.** Box 425. Sand and gravel. Listed under Industry No. 3273.

##### Malta

**LaFond Construction Co.** Gaylord LaFond, owner. Sand and gravel. Listed under Industry No. 3273.

##### Missoula

**King Concrete**, 1600 River Road. Chuck Collins, assistant manager. Sand and Gravel. Listed under Industry No. 3273.

**M & S Ready Mix.** 1601 South Ave. W. H. L. Morgenstern, manager. Sand and gravel, rock chips, masonry cement, crushed road material. Listed under Industry No. 3273

##### Philipsburg

**Taylor-Napp Mining Co.** D. S. Johnson, manager. Manganese dioxide.

##### Polson

**Ready Mix Concrete Co.** Harry Miller and Charles Platt. Sand and gravel. Listed under Industry No. 3273.

##### Sheridan

**American Chemet Corporation.** Frank Moore, manager. Crushes white rock and processes it into white terrazzo roofing granules and driveway chips.

##### Sidney

**Sidney Red-Mix Co.** Box 788. Robert Moran, manager. Sand and gravel. Listed under industry No. 3273.

##### Stevensville

**C. & W. Construction & Mfg. Co., Inc.** George Chilcott, manager. Sand and gravel. Listed under Industry No. 3273.

##### Three Forks

**Sierra Talc & Chemical Co.** Division of Syprus Mine Corp. of Los Angeles. Mill talc.

#### 3296 Mineral Wool

##### Great Falls

**Robinson Insulation Co.**, Box 1419. Floyd E. Gebert, manager. Manufactures insulation products and lightweight aggregates. Brand name "Zonolite."

#### 3299 Non-Metallic Mineral Products, not elsewhere Classified

##### Lewistown

**McDonald Ready Mix Concrete.** Box 390. J. C. McDonald, manager. Concrete blocks. Listed under Industry Nos. 3273 and 3295.

### MAJOR GROUP 33 — PRIMARY METAL INDUSTRIES

#### 333 PRIMARY SMELTING AND REFINING OF NONFERROUS METALS

##### 3331 Primary Smelting and Refining of Copper

##### Anaconda

**The Anaconda Company.** W. A. Emanuel, manager. Primary smelting and refining of copper.

##### 3332 Primary Smelting and Refining of Lead

##### East Helena

**American Smelting & Refining.** Stanley Lane, plant manager. Smelting and refining of lead and silver.

##### 3333 Primary Smelting and Refining of Zinc

##### East Helena

**American Chemet Corp.** William Porter, Sr., manager. Zinc dross (mineral additive for animal feed). Listed under Industry Nos. 2851 and 3295.

##### 3334 Primary Production of Aluminum

##### Columbia Falls

**Anaconda Aluminum Co.** James Smith, general superintendent. Manufactures aluminum ingots.

#### 334 SECONDARY SMELTING, REFINING OF NONFERROUS METALS AND ALLOYS

##### 3341 Secondary Smelting, Refining of Nonferrous Metals and Alloys

##### Great Falls

**The Anaconda Company.** L. J. Ingvalson, plant manager. Home office, 25 Broadway, New York 4, New York. Manufactures copper anodes, copper cathodes, copper wire bar, cakes and billets, refined zinc, copper rods, wire and cable, aluminum rods, wire and cable.

#### 335 ROLLING, DRAWING AND EXTRUDING OF NONFERROUS METALS

##### 3351 Rolling, Drawing and Extruding of Copper

##### Great Falls

**Anaconda Wire & Cable Co.** Frank C. Arms, superintendent. Home office Hastings on the Hudson, New York.

New York Rolling, drawing and extruding of copper. Listed under Industry No. 3352

### 3352 Rolling, Drawing and Extruding of Aluminum

#### Great Falls

**Anaconda Wire & Cable Co.** Frank C. Arms, superintendent. Home office, Hastings on the Hudson, New York, N. Y. Rolling, drawing and extruding of aluminum. Listed under Industry No. 3351

## MAJOR GROUP 34 — FABRICATED METAL PRODUCTS, EXCEPT ORDNANCE, AND TRANSPORTATION EQUIPMENT

### 342 CUTLERY, HAND TOOLS AND GENERAL HARDWARE

#### 3421 Cutlery

##### Bonner

**Ruana Knife Works**, Box 574 Rudolph H. Ruana, owner. Hunting and Bowie knives. Listed under Industry Nos. 3199 and 3423

##### St. Ignatius

**Roberts Roost Knives**, Mrs. Jess Roberts, manager. Manufactures knives. Listed under Industry No. 3423.

#### 3423 Hand and Edge Tools, Except Machine Tools and Hand Saws

##### Bonner

**Ruana Knife Works**, Box 574 Rudolph H. Ruana, owner. Manufactures hatchets. Listed under Industry Nos. 3199 and 3421.

##### St. Ignatius

**Roberts Roost Knives**, Mrs. Jess Roberts, manager. Manufactures hatchets. Listed under Industry No. 3421.

##### Wolf Point

**Woods Power-Grip Manufacturing Co.** Howard Woods, owner. Volve grinder and vacuum grip manufacturer.

#### 3429 Hardware, not elsewhere Classified

##### Helena

**Bill's Key and Repair**, 434 North Main. William Martin, owner. Manufactures keys.

### 343 HEATING APPARATUS (EXCEPT ELECTRIC) AND PLUMBING FIXTURES

#### 3433 Heating Equipment, Except Electric

##### Billings

**Ryniker Steel Products Co.**, Box 1932. Walter E. Ryniker, president. Manufactures gas furnaces, furnace pipe and fittings.

##### Butte

**Gold Top Heating**, 923 Oregon Ave. Walter Sullivan, manager. Manufactures boilers and burners.

**Sullivan Valve & Engineering Co.**, Box 1931. Tim Sullivan. Heating equipment.

### 344 FABRICATED STRUCTURAL METAL PRODUCTS

#### 3441 Fabricated Structural Steel

##### Billings

**Lesman Iron Works**, 411 No. 18th St. Clarence J. Lesman. Steel fabricating

##### Butte

**Western Iron Works, Inc.**, 1400 E. 2nd St. Ralph O. Godtland, general manager. Fabricated structural steel. Listed under Industry No. 3443.

##### Great Falls

**Great Falls Iron Works**, Box 1646, Ross H. Barclay. Fabrication of metals. Listed under Industry No. 3443

**Industrial Steel, Inc.**, 711 3rd St. N.W. A. B. Dismore, president. Structural steel fabrication. Listed under Industry No. 3443

##### Hamilton

**Hydro Point Engineering**, Box 488. Mark Annin and Conrad LaSalle, owners. Fabricated structural steel, all types. Listed under Industry No. 3443.

##### Kalispell

**Kalispell Cabinet Works**, 128 2nd Ave. W. William F. Timm. Manufactures steel domes. Listed under Industry No. 2433.

##### Lewistown

**Lewistown Machine & Welding Works**, 307 W. Janeaux. Duane Hoffman, manager. Structural steel products (cattle guards, semi-truck grain trailers and miscellaneous steel products). Listed under Industry Nos. 3443 and 3591.

#### 3442 Metal Doors, Sash, Frames, Molding, and Trim

##### Billings

**Beauty Vent Awning Mfg. Co.**, 2402 Minnesota Ave. Fred Crinen. Manufacturing aluminum awnings, doors and windows. Brand name "Lite Vent" and "Storm Master"

**E. R. Young Company, Inc.**, 422 No. 13th St., Box 1768. Manufactures "Yankee" aluminum windows.

##### Kalispell

**Aluminum Products, Inc.**, 32 1st Ave. West. Clifford O. Miller, president. Manufactures storm doors, windows and siding.

##### Lewistown

**Boird's, Inc.**, 109 4th Ave. South. Bob Boird, manager. Manufactures "Automatic" aluminum windows and doors, awnings and railings.

#### 3443 Fabricated Plate Work (Boiler Shops)

##### Big Sandy

**Montana Enterprises**. Howard A. Wiederrick. Fabricates plate work.

##### Billings

**Empire Steel Mfg. Co.**, 501 No. 18th St. Thomas B. Breen,

president. Manufactures storage tanks, farm, truck, water, septic tanks, pressure vessels, corrugated culvert, arched culvert and special steel fabrication.

**Marketing Manufacturing Co.**, Box 141. Leo Schwartz, president. Manufactures steel barrels, tanks and all kinds of metal products.

**Yellowstone Heating & Cooling, Inc.**, 3125 Boulder. Myron Snyder. Manufactures piping and ducts for furnaces, flower boxes and flower pots.

##### Butte

**Western Iron Works, Inc.**, 1400 E. 2nd St. Ralph O. Godtland, general manager. Manufactures tanks, boilers, pipe and mining equipment. Listed under Industry No. 3441

##### Cut Bank

**Arras Tank Company**, Box 2156. A. A. Arras, Jr., vice president and general manager. Manufactures tanks and vessels, gun barrel heaters and chloride dehydrators.

##### Great Falls

**Great Falls Iron Works**, Box 1646, Ross H. Barclay. Fabricated plate work. Listed under Industry No. 3441.

**Industrial Steel, Inc.**, 711 3rd St. N.W. A. B. Dismore, president. Manufactures pressure and non-pressure tanks and miscellaneous metal products. Listed under Industry No. 3441.

##### Hamilton

**Hydro Point Engineering**, Box 488. Mark Annin and Conrad LaSalle, owners. Manufactures tanks and fabricated plate work. Listed under Industry No. 3441.

##### Helena

**Armor Metal Products**, 2500 Phoenix Ave. L. W. Fahrner, president. Fabricated plate work. Listed under Industry Nos. 3522 and 3593.

**Caird Engineering Works**, Box 837. George A. Porte, president. Fabricated plate work. (Iron foundry, castings, moulding). Listed under Industry No. 3599.

**Modern Welding**, 14 E. State. Leslie M. Miles, owner. Steel fabrication, repair and design, scoops on dozers. Listed under Industry No. 3449.

##### Lewistown

**Lewistown Machine & Welding Works**, 307 W. Janeaux. Duane Hoffman, manager. Fabricated plate work (septic tanks). Listed under Industry Nos. 3441 and 3591.

##### Miles City

**Anderson Iron Works**, Box 266. John Anderson. Fabricates boiler plate.

##### Missoula

**Culbertson, Inc.**, Highway 10 West. Marion D. Culbertson, president. Manufactures trailer hitches, truck racks, and miscellaneous metal products. Listed under Industry No. 3449

#### 3444 Sheet Metal Work

##### Anaconda

**Anaconda Tin Shop**, 211 Oak St. Gerald Ohman, owner. Manufactures sheet metal products.

**Collins Sheet Metal Works**, 422 W. Park Ave. Frank Collins, owner. Manufactures sheet metal products.

**Phillips Sheet Metal Works**, 124 E. Commercial. Ernest Phillips, owner. Manufactures sheet metal products.

##### Billings

**Armco Steel Corp., Metal Products Division**, 415 Albert



St., N. P. Industrial Site. Tom Swartz, plant superintendent. Manufactures "Armco" irrigation supplies and culverts, general sheet metal work.

**Daniels Sheet Metal**, 1227 No. 25th St. Elwood Daniels. General sheet metal work, furnace and air conditioning.

**Dave's Heating & Air Conditioning Service**, 2440 Grand Ave. David C. Johnson. Sheet metal work, furnaces and air conditioners.

**Empire Heating & Cooling Co.**, N. P. Industrial Site. Dale Beers, manager. Roofing and sheet metal work, cooling and heating.

**Roscoe Steel & Culvert Co.**, 1420 Montana Ave. William P. Roscoe, Jr., president. Corrugated metal pipe, miscellaneous fabricated steel products.

**Russell Sheet Metal Co.**, 206 Prickett Lane. Roy E. Russell, owner. Sheet metal work, furnaces and air conditioners. Manufactures "Yellowtail" campers under Industry No. 3791.

**Winchell Central Sheet Metal Works, Inc.**, 407 No. 24th St. Ralph J. Winchell. Heating and air conditioning and general sheet metal items.

#### Bozeman

**Bozeman Sheet Metal**, 22 So. Grand Ave. Frank E. Hoey, owner. Sheet metal work.

**English Sheet Metal, Inc.**, 223 E. Main. Frank J. Trunk, Jr., president. Sheet metal work.

**McLees Sheet Metal, Inc.**, 601 E. Mendenhall. John E. McLees, president. Sheet metal work.

#### Browning

**Evans Sheet Metal**. Joseph Evans, owner. Sheet metal fabrication and welding.

#### Butte

**Butte Tin Shop, Inc.**, 34 E. Galena. William Wills, president. Sheet metal products.

**City Heating & Tin Shop**, 915 E. Front. Frank Dorhofer and Ellis Sullivan, owners. Sheet metal products.

**Sullivan Sheet Metal Works**, 304 So. Montana. Timothy Sullivan, manager. Sheet metal products.

#### Choteau

**Choteau Sheet Metal**. Col Southard, owner. Metal fabricating.

#### Conrad

**Egan Metal Products**. Thomas Egan, owner. Sheet metal fabrication.

#### Culbertson

**White's Metal Shop**. Sylvan White, owner. Custom metal fabrication.

#### Cut Bank

**Cut Bank Sheet Metal Works**. Ralph Chase, owner.

#### Deer Lodge

**H. & N. Sheet Metal Fabricators Co., Inc.**, 427 Main St. Alfrey Hansen, president. Manufactures "Solar" sheet metal registers (baseboard type).

#### Dillon

**Anderson Sheet Metal Works**. 132 No. Montana St. Elmer Anderson, owner. Sheet metal fabrication.

**Dillon Heating & Tin Shop**, 203 No. Montana St. Sam Landon, owner. Sheet metal work.

#### Ennis

**Schaffer's Heating & Sheet Metal**. Oliver Scholfer, manager. Custom sheet metal fabrication.

#### Forsyth

**Post's Heating & Sheet Metal**. Ernest Post, owner. Sheet metal shop.

#### Fort Benton

**Fisher Metal Products**, 1209 20th St. Lawrence Ledgerwood. Sheet metal fabrication.

#### Glasgow

**Johnson Plumbing & Sheet Metal Works**, 527 1st Ave. South. Roy Johnson, manager. Custom sheet metal work.

#### Great Falls

**Bill's Sheet Metal**, 1112 4th Ave. South. William N. O'Neill. Custom sheet metal fabrication.

**Cascade Sheet Metal**, 2218 9th Ave. North. Joe Klemencic. Custom sheet metal fabrication.

**Falls Sheet Metal Works**, 109 1st Ave. South. Michael G. Winchell. Custom sheet metal fabrication.

**Greene's Sheet Metal**, 19 2nd St. South. Donald E. Greene. Manufactures fabricated sheet metal products.

**Hedrick's Sheet Metal**, 517 2nd Ave. North. Robert E. Hedrick. Custom sheet metal fabrication.

**Edwin Johnson Plumbing & Heating**, 117 Central Ave. Edwin Johnson. Custom sheet metal fabrication.

**A. T. Klemens & Son**, 814 12th St. North. Joseph R. Klemens, president. Custom sheet metal fabrication.

**Northwestern Roofing & Sheet Metal Workers**, 1419 3rd Ave. South. Nathan Young, president. Custom sheet metal fabrication.

**O'Neill Sheet Metal Works**, 318 8th Ave. South. Custom sheet metal fabrication.

**Van Tighen Steel Metal**, 214 5th St. South. Mr. & Mrs. John Van Tighen. Custom sheet metal fabrication.

#### Hamilton

**Fullerton's Plumbing & Heating Shop**. Theodore Fullerton, manager. Custom sheet metal fabrication.

**Valley Plumbing & Heating Co.** Wesley Cook, manager. Custom sheet metal fabrication.

#### Havre

**Haidahl Sheet Metal Works**, 637 West 1st. Sheet metal work.

**Hansen Sheet Metal & Refrigeration Shop**. East 1st. Sheet metal work.

#### Helena

**American Sheet Metal & Roofing Service, Inc.**, 1526 Hauser Blvd. Wayne Drennon, president. Sheet metal work.

**Helena Sheet Metal Works**, 711 North Main. Sheet metal work.

**Reher Plumbing & Heating**, 1643 No. Montana Ave. Sheet metal products.

#### Kalispell

**General Sheet Metal**, 630 West Idaho. James H. Lohse. Sheet metal work.

**Glacier Concrete & Metal Pipe Co.**, 1702 5th Ave. East. Lester R. Truman, owner. Corrugated metal culverts and corrugated metal window wells. Listed under Industry Nos. 3271 and 3272.

**Kalispell Sheet Metal Works**, 201 W. 2nd St. Andrew Hundaahl, president. Sheet metal work.

**Richards Sheet Metal**, 201 3rd Ave. West. Will and Chubb Richards. Sheet metal work.

#### Lewistown

**Chet & Harold Sheet Metal**, 312 W. Washington. Chet Brown, manager. Fabricated sheet metal.

**Rimby's Heating & Sheet Metal**, 315 Prospect Ave. Harold Rimby, manager. Fabricated sheet metal goods.

#### Livingston

**Chaney Plumbing Co.**, 203 So. Main St. Don Chaney, manager. Sheet metal work.

**Schaler's Sheet Metal & Roofing**, 211 So. Main. William Schuler, owner. Custom sheet metal fabrication.

**Western Plumbing & Heating**, 425 South 2nd. Gordon McGuire and Vern McLaughlin, business managers. Sheet work and sheet metal fabrication.

#### Miles City

**Cuttings Sheet Metal & Roofing**, 18 South 5th. Gene S. Cutting, proprietor. Manufactures tanks, ducts, and other fabricated sheet metal products, sheet work, air conditioning, roofing, coal, gas and oil furnaces.

**Magnuson Tin Shop**. East of Miles City. August and Harold Magnuson, owners. Fabricates tin work.

#### Missoula

**City Roofing & Sheet Metal Co.**, 845 Ronan. Raymond J. Smith. Fabrication of sheet metal.

**Graybeal Heating & Air Conditioning**, 2104 Middlesex. Lloyd W. Graybeal. Sheet metal work (manufactures only for own use in heating and air conditioning).

**Reinhard Roofing & Sheet Metal**, 1132 Longstaff. Carl Reinhard. Roofing, heating and air conditioning.

**Taylor Sheet Metal & Roofing**, 229 East Main. William Taylor. Fabrication of sheet metal.

#### Polson

**Bentz Sheet Metal**. Box 91. Bill Bentz, manager. Sheet metal fabrication.

#### Shelby

**Sanders Sheet Metal Co.** Chet Sanders, owner. All types of tin work.

#### Whitehall

**Mathisen Sheet Metal & Plumbing**. George Mathisen. Sheet metal work.

### 3449 Architectural and Miscellaneous Metal Work

#### Billings

**Montana Welding & Radiator**, 118 No. 32nd. John C. Williamson, president. Manufactures ornamental iron railing, bumpers. Welding and radiator repair.

#### Butte

**Montana Ornamental Iron Works**, 261 E. Park St. Tony Hall, proprietor. Manufactures light structural steel and ornamental iron work.

#### Helena

**Evans Shop**, 649 Helena Ave. George Marcin, manager. Ornamental iron products manufacture.

**Modern Welding**, 14 East Side. Leslie M. Miles, owner. Ornamental iron work. Listed under Industry No. 3443.

#### Missoula

**Culbertson, Inc.**, Highway 10 West. Marion D. Culbertson, president. Ornamental iron work. Listed under Industry No. 3443.

### 346 METAL STAMPINGS

#### 3461 Metal Stampings

## Helena

Rock Hand & Co., 827 No. Main. Manufactures garbage cans and racks.

### 347 COATING, ENGRAVING, AND ALLIED SERVICES

#### 3471 Electroplating, Plating, Polishing, Anodizing and Coloring

## Billings

Northwest Plating Co., Box 1833 Ralph Hoffman and Kenneth Hoen, partners. Industrial hard chrome plating.

## Kalispell

Reid's Metallizing Shop, 60 8th Ave. W. N. Reid D. Mauk. Complete metallizing service, automatic welding, roller rebuilding.

#### 3479 Coating, Engraving, and Allied Services, not elsewhere Classified

## Missoula

Treasure State Metal Products, 500 Taylor. J. Brad Seely, president. Metal coating, lacquers. Listed under Industry No. 3993.

### 349 MISCELLANEOUS FABRICATED METAL PRODUCTS

#### 3493 Steel Springs

## Missoula

Tuck Spring & Steel, Inc., Reely Ind. Site Highway 10 West. Ralph Tuck, president. Manufactures steel springs for autos and trucks. Listed under Industry No. 3591.

#### 3494 Valves and Pipe Fittings, Except Plumbers' Brass Goods

## Butte

Butte Brass & Controls, 923 Oregon Ave. Tim J. Sullivan, president. Manufactures valves and pipe fittings.

#### 3499 Fabricated Metal Products, not elsewhere Classified

## Choteau

Erly Corporation, Vern Moulton, president. Manufactures garbage can racks.

## MAJOR GROUP 35 — MACHINERY, EXCEPT ELECTRICAL

### 3522 Farm Machinery and Equipment

## Billings

K. C. Machine & Manufacturing Co., 348 Scott St. Beet cleaners.

Viel Manufacturing Company, Box 632 F. W. Viel, owner-manager. Manufactures and Rock Pickers, Davis Electric Transfer pump, etc.

## Bozeman

Badgley Machine Shop, 112 W. Lamme. Cecil F. Badgley. Manufactures hay handling equipment and electric hog scrapers.

## Butte

Sheep Shearers Union, 14 W. Platinum. Harry Evan, president. Manufactures sheep shearing equipment.

## Corvallis

Thorson Manufacturing Co., Alvin E. Thorson, manager. Manufactures cattle chutes, branding stalls, and other miscellaneous farm equipment.

## Fairfield

Meyer Ditcher Company, Ray D. Meyer, owner. Manufactures bail sweeps, and ditcher.

## Forsyth

Curtis Rack & Endgate, E. V. Curtis, owner. Manufactures stockracks and gates for hauling livestock.

## Fort Benton

Gysler Manufacturing Co., 1203 20th Street. Ervin Gysler. Manufactures farm machinery and duckflocks.

## Helena

Armor Metal Products, 2500 Phoenix Ave. L. W. Fahrner, president. Manufactures farm machinery and equipment. Listed under Industry Nos. 3443 and 3693.

## Jackson

Jackson Garage, John and Kenneth Krause, owners. Manufactures side delivery rakes, hydraulic hay stackers and loaders, prop-driven snow planes.

## Lewistown

Dan Morrison & Sons, 207 W. Janeaux St. Dave Morrison, manager. Manufactures farm machinery, cattle chutes and cattle guards.

### 353 CONSTRUCTION, MINING, AND MATERIALS HANDLING MACHINERY AND EQUIPMENT

#### 3531 Construction Machinery and Equipment

## Billings

Murray Manufacturing Co. of Billings, Box 1062. Ralph Hoffman, owner-manager. Manufactures earth moving equipment and scrapers.

## Helena

Bradford Machine Works, 1503 National Ave. William Bradford, owner. Manufactures truck mounted heel booms and fence post pointers.

## Kalispell

Mountain Manufacturing Co., Inc., 780 5th Ave. W. N. Don Luterbach. Manufactures rubber tired skid logging tractor. Brand name "Mountain Logger."

## Missoula

Ward Manufacturing Co., Inc., 1301 Garfield. Ronald L. Ward, president. Manufactures Tangslinger.

#### 3537 Industrial Trucks, Tractors, Trailers, and Stackers

## Billings

Yellowstone Hydraulics & Machine, Inc., Box 1624, N. P. Industrial Site. C. C. Merry. Manufactures Hydroloader, all forms of hydraulic power units, hydraulic cylinders, designing and engineering of hydraulic equipment.

### 355 SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

#### 3553 Woodworking Machinery

## Missoula

Mill Supply Co., U. S. Highway 93 South. D. F. Barthold, president. Manufactures sawmill machinery (sawmill cuttrages, trimmers, log turner networks).

### 358 SERVICE INDUSTRY MACHINES

#### 3586 Measuring and Dispensing Pumps

## Helena

Warren Sales & Service, Inc., 1830 Boulder. Bernard Warren, president-manager; John Mockel, vice president and manager. Remanufacture gasoline service station pumps (wholesale).

### 359 MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL

#### 3591 Machine Shops, Jobbing and Repair

## Billings

Billings Machine & Welding Shop, Inc., 115 No. 9th St. Ted Molter, president. Machine work, welding and job work.

Blue Front Blacksmith & Welding Shop, 102 So. 27th. Bruce Chapman. Welding, blacksmith, auto and truck spring work and general repair.

Great Northern Tool & Supply Co., 2224 Minnesota Ave. Jack O'Donnell, general manager. Manufactures welding machines, electrodes, submersible pumps, wire rope lathes, pulleys, conveyor belts, packing and drills.

Hall Machine Co., Inc., 301 No. 20th St. D. S. Hall, president. General machine shop, heavy duty repair and boiler repair.

Harmon Body Works, 3504 1st Ave. South. Stephen Harmon. Blacksmithing and electrical welding. Listed under Industry No. 3713.

Olson's Machine & Welding, 1412 3rd Ave. North. Lloyd A. Olson, owner. Machine shop, jobbing and repairing.

Reymer Machine Co., 115 No. 25th St. Otto Reymer, president. Custom machine work.

## Bozeman

Midwest Welding & Machine Shop, 101 N. Rouse L. Fletcher Hare. Machine shop.

## Butte

Browns Auto Parts & Machine Co., 110 West Galena. Wenzel Brown, president. Machine shop, jobbing and repair.

Butte Machinery Co., 501 E. Aluminum. Joseph Shaw and Jones Taylor, owners. Custom machine and repair work.

McGrew Machine Fabricating, 1000 Utah St. Vernon L. Johnson, president. Custom fabrication, ornamental iron work, general machine and repair work.

## Columbus

Columbus Welding & Blacksmith Shop, Willis Kuehn, manager. Machine shop, jobbing and repair, general welding and steel work.

## Conrad

Bud's Welding & Machine Shop, William Rae, manager. Custom machine shop work and custom welding.



### **Cut Bank**

**Kraft Machine & Supply**, Box 895. John E. Kraft, owner. Repair, maintenance and fabrication of oil field equipment.

### **Darby**

**Wilson Machine Shop**. Milo Wilson, manager. Custom machine work.

### **Dillon**

**Beaverhead Machine & Welding Shop**, 624 E. Glendale. Machine shop, jobbing and repair.

### **Glasgow**

**Wolden's General Repair Shop**, 742 3rd Ave. South. Machine shop custom work, jobbing and repair.

### **Great Falls**

**Industrial Machine Co.**, 1110 24th St. South. James H. Gendreau. Machine shop.

**Riverside Machine Works**, 112 6th St. South. A. Knudsen. Machine shop, jobbing and repairing.

### **Havre**

**Modern Machine Works**, 204 1st St. Charles Whitworth, owner. Machine shop, jobbing and repair.

**North Side Auto**, 307 North Side. Emil Lewison, owner. Machine shop, jobbing and repair.

### **Kalispell**

**Cole's Machine Shop**, 217 1st Ave. West. Frank W. Cole, owner. Custom machinework.

**Jackson Machine Shop**, 645 E. Idaho St. L. Tom Jackson. Automotive machine work, lathe work, crankshaft grinding.

**Olson Machine Works**, Route 2. Ole Olson, owner. Manufactures machine tools, gear cutting, aluminum and brass castings.

### **Lewistown**

**Fabian Machine & Welding Co.** Robert Fabian, manager. Custom machine and welding work.

**Lewistown Machine & Welding Works**, 307 W. Joneaux. Eugene Holtman, manager. Custom machine and welding work. Listed under Industry Nos. 3441 and 3443.

### **Malta**

**Dobson's Implement**, 28 So. 2nd East. Norris W. Dobson, owner. Blacksmith and machine shop work.

### **Miles City**

**Joe's Machine Works**, 20 No. 5th. Joe H. Christianson, proprietor. All types of machine work.

**Lee's Machine Shop**, 111 Na. 9th. Cecil Nile, proprietor. All types of machine work.

### **Missoula**

**Industrial Machinery Co.**, 1029 Sa. 3rd West. J. L. Van Allen. Machine shop, jobbing and repairing.

**Missoula Welding & Machine Works**, 227 W. Main. James Lenox, Jr. Custom building and repairing.

**Tuck Spring & Steel, Inc.**, Reely Industrial Site, Highway 10 West. Ralph Tuck, president. Machine shop, jobbing and repair. Listed under Industry No. 3493.

### **Philipsburg**

**Jess Evans Welding**. Metal prefabricating and custom lathe work.

### **Polson**

**Dean Bailey**, 712 8th St. East. Custom machine shop work and welding.

**Polson Machine Co.**, Box 237. Mr. Hossier, manager. Heavy machine shop work.

### **Shelby**

**Adams Machine Shop**. Ed Adams, owner. Machine shop, jobbing and repair.

### **Stevensville**

**Snedigar Welding & Blacksmith Shop**. William Snedigar, manager. Custom welding and blacksmithing.

### **Superior**

**Cedar Creek Shop**. Miles Tower, manager. Machine shop, jobbing and repairing.

### **Three Forks**

**Jack's Welding & Repair Shop**. Jack Trent, owner. Machine shop and repair.

### **Wolf Point**

**Wolf Point Iron Works**, 113 Front St. Lester Gross, owner. Custom metal fabrication and welding.

3599 Machinery and Parts, Except Electrical, not elsewhere Classified

### **Billings**

**Berkley Equipment & Machine Works**, 321 No. 13th St. Howard L. Berkley. Welding and machine work.

### **Helena**

**Caird Engineering Works**, Box 837. George A. Caird, president. Manufactures machinery and parts. Listed under Industry No. 3443.

### **Kalispell**

**Rolie's Machine Works**, 39 2nd Ave. E. George Stearns, president. Manufactures component parts of machinery.

## **MAJOR GROUP 36 — ELECTRICAL MACHINERY, EQUIPMENT AND SUPPLIES**

### **365 RADIO AND TELEVISION RECEIVING SETS, EXCEPT COMMUNICATION TYPES**

#### **3651 Radio and Television Receiving Sets, Except Communication Types**

### **Billings**

**Televox, Inc. Sound Devices Mfg. Co.**, 1215 Monard Road, P. O. Box 626. Barna Majors, president and general manager. Manufactures public address systems and radio and phonographic speakers. Listed under Industry No. 3662. Brand name "Televox."

### **366 COMMUNICATION EQUIPMENT**

#### **3662 Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus**

### **Billings**

**Televox, Inc. Sound Devices Mfg. Co.**, 1215 Monard Road, P. O. Box 626. Barna Majors, president and general manager. Manufactures electric communication equipment. Listed under Industry No. 3651. Brand name "Televox."

### **Bozeman**

**Montronics, Inc.**, 703 West Babcock. Manufactures electronics equipment.

## **369 MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES**

### **3693 Radiographic X-ray, Fluoroscopic X-ray,**

**Therapeutic X-ray, and Other X-ray Apparatus and Tubes.**

### **Helena**

**Armor Metal Products**, 2500 Phoenix Ave. L. W. Fahrme, president. Manufactures physiotherapy equipment. Listed under Industry Nos. 3443 and 3522.

## **MAJOR GROUP 37 —**

## **TRANSPORTATION EQUIPMENT**

### **371 MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT**

#### **3713 Trucks and Bus Bodies**

### **Billings**

**Harmon Body Works**, 3504 1st Ave. So. Stephen Harmon. Manufactures auto, truck and beet truck bodies. Listed under Industry No. 3591.

### **Helena**

**Jack's Fire Equipment Company**, 1421 Wilder Ave. Plant located at Leslie & Joslyn. Jack Martinz, president and manager. Manufactures fire trucks, all sizes and pump capacities. Brand name "Superior Fire Apparatus."

### **Manhattan**

**H. B. Fisher Body Shop**. Herb Fisher. Manufactures farmvan and custom built truck bodies. Brand name "Fisher."

#### **3714 Motor Vehicle Parts and Accessories**

### **Butte**

**Anchor Engineering Rebuilders**, South Arizona St. Jim Sydal, owner. Manufacture rebuild auto and truck engines.

#### **3715 Truck Trailers**

### **Billings**

**Beall, Inc.**, 218 No. 16th St. A. A. Jones, manager. Manufactures truck tanks and truck trailers for bulk commodities, flat bed and grain.

### **373 SHIP AND BOAT BUILDING AND REPAIRING**

#### **3732 Boat Building and Repairing**

### **Kalispell**

**Glacier Park Boat Builders**, LaSalle Road. Manufacture row boats.

**Inland Laker Boats**, 444 Woodland. Arthur Burch. Manufacture wood and aluminum boats.

### **Lakeside**

**Service Boat Co.** Charlie Cox, owner. Manufactures wood boats.

**Stan Craft Boat Co.** Stan Young, owner. Manufactures wood boats.

### **Lewistown**

**Snowy Mountain Campers**, Airport Industrial Site. Donald Pegg, manager. Manufactures fiberglass boats. Listed under Industry No. 3791.

## Missoula

**Whitnire Custom Fiber Glass.** 10 Wythe Ave. Kenneth Whitnire, owner-manager. Manufactures boats, swimming pools, industrial storage tanks, flutes and custom fiberglass work.

## Somers

**Lee Craft Boats.** Ole Lee, owner. Manufacture fiberglass and wood boats. Brand names "LeeCraft Boats" "Lee Craft Marine."

## 379 MISCELLANEOUS TRANSPORTATION EQUIPMENT

### 3791 Trailer Coaches

## Bigfork

**E Z Pickup Covers.** Earl A. Zentner, manufacturer. E Z Pickup aluminum pickup covers.

## Billings

**Russell Sheet Metal Co.,** 201 Prioket Lane. Roy E. Russell, owner. Manufactures "Yellowtail" campers. Listed under Industry No. 3444.

## Great Falls

**Cascade Coach Co.,** 1211 10th Ave. South. Howard H. Tunnichill, manufacturer. Campers, coaches, mobile homes etc. Trade name "Cascade Coach."

## Kalispell

**Bell Manufacturing Corp.,** Route 1. Hubert Bell, owner. Manufactures trailers, campers and other aluminum fabricating.

## Lewistown

**Snawy Mountain Campers,** Airport Industrial Site. Donald Pegg, manager. Camper, assembled and kit for camp trailer homes. Listed under Industry No. 3791.

## MAJOR GROUP 38 — PROFESSIONAL, SCIENTIFIC, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC AND OPTICAL GOODS; WATCHES AND CLOCKS

### 384 SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS AND SUPPLIES

#### 3842 Orthopedic, Prosthetic, and Surgical Appliances and Supplies

## Billings

**Billings Orthopedic Appliance Shop,** 506 No. 32nd Street. Raymond J. Hakert, owner. Manufactures orthopedic appliances, prosthetic appliances and surgical supports.

**Raymond Hakert,** 506 No. 32nd St. Manufactures orthopedic appliances and fittings and prosthetic appliances.

## Butte

**Butte Orthopedic Appliance Co.,** 11 So. Montana. Hughbert DuBois, owner. Manufactures artificial limbs and orthopedic appliances.

## Great Falls

**Clark's Orthopedic Supply,** 513 1st Ave. South. Ralph W. Clark, president. Manufactures orthopedic braces.

## Missoula

**Clark's Orthopedic Supply,** 508 Kensington. D. L. Clark, owner. Manufactures orthopedic braces and artificial limbs.

## 3843 Dental Equipment and Supplies

## Helena

**Capital Dental Laboratory,** 734 Helena Ave. Edwin Kralick, owner. Fabricates dentures, manufactures orthodontic appliances.

## MAJOR GROUP 39 — MISCELLANEOUS MANUFACTURING INDUSTRIES

### 391 JEWELRY, SILVERWARE, AND PLATED WARE

#### 3911 Jewelry, Precious Metal

## Big Timber

**The Fort. W. H. Osborne,** manager. Manufactures jewelry from semi-precious stones.

## Billings

**Greenleaf Agate Shop,** Box 1415. John L. Greenleaf, owner. Manufactures Montana agates and Alaskan black diat and jewelry.

## Butte

**Keenan Manufacturing Jewelers,** Rialto Building. James Keenan, manager. Manufactures precious metal jewelry. Listed under Industry No. 3911.

## Great Falls

**J. G. Svenson,** Manufacturing Jeweler, Box 2022. J. G. Svenson, proprietor. Manufactures jewelry.

## Miles City

**Agate & Silver Shop,** 1117 Knight. Edwin F. Klapmeier, proprietor. Agate jewelry.

**Bruce M. Ward Agate Shop,** 702 Woodbury St. Manufactures agate jewelry.

## Missoula

**Garden City Granite Co.,** 114 W. Spruce. Mark Stetler, manufacturer. Granite jewelry. Listed under Industry No. 3911.

## Polson

**Dick's Agate Shop.** Dick Krihon, owner. Manufactures agate jewelry.

## Victor

**Rockford's Rock & Jewelry Shop.** Virgil Rockford, manager. Manufactures jewelry from native stones.

### 393 MUSICAL INSTRUMENTS AND PARTS

#### 3931 Musical Instruments and Parts

## Somers

**Keith and Larry Grice,** Manufacture and calibrated element of clock attached to the sounding board of a Wurlitzer piano.

### 394 TOYS, AMUSEMENT, SPORTING AND ATHLETIC GOODS

#### 3941 Games and Toys, Except Dolls and Children's Vehicles

## Big Timber

**Goosey-Gander Toys,** Mal Goosey, owner. Manufactures original "Mr. Jazzbo" and miscellaneous toys.

## Bozeman

**Allied Manufacturing Co.,** 135 E. Mendenhall. W. I. Sullivan, general manager. Manufactures games and toys.

**Dorrington Dental Laboratory,** Power Block. Kenneth L. Dorrington, owner. Fabricates dentures.

## Missoula

**American Dental Manufacturing Co.,** 1201 So. 6th St. W. Don Thompson and Russell Bryan. Manufactures dental equipment and supplies.

## Hungry Horse

**Eastern Model Railway Co.,** Box 148. Arno W. Ring, owner. Manufactures toy mechanical trains and "Crathman Kits."

#### 3949 Sporting and Athletic Goods, not elsewhere Classified

## Big Timber

**Big Timber Fly Shop,** 511 W. 4th. Francis Lewis, proprietor. Fly tying.

## Columbia Falls

**Mountain View Fly Tying,** Route 1. Otto Schuliz, manufacturer and assembles fishing lures.

## Livingston

**Dan Bailey's Fly Shop,** 209 W. Park. Dan Bailey and Walter E. Montal, partners. Manufactures flies, leaders and other fishing accessories. Brand name "Dan Bailey's Flies."

## Missoula

**Haven's Hair Trout Flies,** 1725 Sherwood St. E. L. Haven, owner. Makes trout flies.

**Pott Trout Fly,** Box 903. Frank B. Anderson, Jr., partner. Makes hand woven hair flies.

### 395 PENS, PENCILS, AND OTHER OFFICE AND ARTISTS' MATERIALS

#### 3953 Marking Devices

## Billings

**Hagens Reproductions & Lithographs,** 213 No. 30th Street. Reid L. and William J. Hagen, partners. Manufactures rubber stamps. Listed under Industry No. 2752.

## Helena

**Helena Stamp Works,** 423 No. Main. James Purcell, owner. Manufactures rubber stamps, metal stamps, seals, etc.

### 396 COSTUME JEWELRY, COSTUME NOVELTIES, BUTTONS, AND MISCELLANEOUS NOTIONS, EXCEPT PRECIOUS METAL

#### 3961 Costume Jewelry and Costume Novelties, Except Precious Metal

## Bigfork

**Kehoe's Agate Shop,** Jack Kehoe, owner. Makes agate jewelry.

## Bozeman

**Boyd's Jewelry, Inc.,** 11 W. Main St. Frank J. Boyd, owner. Makes costume jewelry.

## Butte

**Keenan Manufacturing Jewelers,** Rialto Building. James Keenan, manager. Makes costume jewelry. Listed under Industry No. 3911.



## Forsyth

**Rose's Agate Shop.** Cuts and polishes agates, makes jewelry and novelties.

## Glasgow

**Baker's Jewelry.** 530 2nd Ave. South. Lavern Baker. Cuts, polishes and sets agate stones.

## Stevensville

**Mrs. Earl Martin.** Makes jewelry from native wilderness products.

## Wolf Point

**Montana Gems.** Jim Larson, owner. Cutting agate products.

## 398 MISCELLANEOUS MANUFACTURING INDUSTRIES

### 3981 Brooms and Brushes

#### Bigfork

**Flathead Broom & Mop.** Box 79. Dwain Roberts, owner. Manufactures brooms and mops. Brand name "Montana Made."

#### Butte

**Montana Broom & Brush Co.,** 730 E. Iron St. Harry Hitchcock, president. Makes a complete line of residential and industrial brooms.

### 3984 Candles

#### West Glacier

**Montana House.** Box 4. Hans Jungster. Listed under Industry Nos. 2033 and 3999.

### 3988 Morticians' Goods

#### Butte

**Montana Casket Co.,** 131 So. Wyoming. W. M. Frender, general manager. Manufactures caskets.

### 3993 Signs and Advertising Displays

#### Billings

**Billings Neon Manufacturing Co.,** Box 2052. Paul L. Berlinsky, president. Manufactures signs, neon and plastic billboards.

**General Signs, Inc.,** 4009 Montana Ave. Manufactures electrical and billboard signs.

#### Bozeman

**Allied Art Studio,** 12 Story Block. Edward S. Ashford, manager. Manufactures signs and advertising displays.

**Hall-Dix Signs,** 10 No. 7th Ave. Harry P. Hall and Ralph E. Dixon. Manufactures signs and advertising displays.

**Rainbow Signs, Inc.,** 105 No. 8th Ave. George R. Mickelson, president. Manufactures signs and advertising displays.

**Urdahl Signs,** 206 E. Griffin Drive. Marlow S. Urdahl. Manufactures signs and advertising displays.

#### Butte

**Brilliant Neon Co.,** 915 E. Front. Ellis E. Sullivan, manager. Manufactures signs and advertising displays.

**Butte Neon Outdoor Advertising Co.,** 401 So. Main. Ernest Ceserani, president. Manufactures neon, plastic signs and billboards.

**Tollan Sign Co.,** 631 Utah Ave. Helen King, owner. Manufactures signs and advertising displays.

## Fort Benton

**Benton Body & Sign Shop.** 1416 Main. Tony Highfill, manager. Makes paint signs.

## Great Falls

**Electrical Products Consolidated,** Box 1134. H. L. Griffin, manager. Home office, Mercer at Yale, Seattle, Washington. Manufactures custom designed signs and lighting.

**Legowik Graphic Arts Studios,** Box 842. Stanley W. Legowik. Advertising and commercial art service.

**Neon Sales & Service, Inc.,** 1336 13th Ave. S. W. Jack S. Murphy. Designs, manufactures and installs signs.

## Hamilton

**Quick Service Neon Co.,** 214 Main St. C. S. Winchell, manager. Manufactures custom neon signs.

## Havre

**Havre Sign Service,** 415½ Third. Manufactures signs and advertising displays.

## Helena

**Capitol Neon, Inc.,** 51 South Main. Jack Wiley, president. Manufactures electrical displays and signs.

**Commercial Sign & Sho-Card Shop,** 130 E. 6th Ave. Wm. F. Freyler, owner. Commercial sign painting and screen processing.

**Helena Sign & Display Co.,** 54 So. Main. Sherman Miner, manager. Manufactures signs and advertising displays.

**Jack N. Kinney Signs,** 415 Oakes. Jack N. Kinney, owner. Commercial sign painting and displays.

## Kalispell

**American Sign Service,** 102 1st Ave. West. Lester Snyder. Manufactures signs and advertising displays.

**Western Neon,** 538 W. Idaho. Manufactures signs and advertising displays.

## Livingston

**Parco Neon Co.,** Box 149. Stephen J. Tokarski, owner. Manufactures neon signs and road bulletins.

## Malta

**Modern Signs,** 101 No. 1st East. Manufactures neon and signs of all types.

## Missoula

**Curran Sign Co.,** 1220 W. Kent. Belmer Curran. Manufactures signs and advertising displays.

**Treasure State Metal Products,** 500 Taylor. J. Brad Seely, president. Manufactures all types of signs. Listed under Industry No. 3479.

**Walford Electric Co., Inc.,** 513 So. Higgins. Ryland H. Walford, president. Manufacture and service electric signs. Electrical wiring and maintenance.

## West Yellowstone

**Ham Sign Company.** Herman Waybright, manager. Manufactures signs and advertising displays.

### 3999 Manufacturing Industries, not elsewhere Classified

#### Kalispell

**Montana Evergreen, Inc.,** Box 443. Ora A. Miller, manager. Makes evergreen ornamental decorations.

**Snowline Tree Co.,** North Main. Nat. Boyd. Makes evergreen Christmas decorations and novelties.

#### West Glacier

**Montano House,** Box 4. Hans Jungster. Makes evergreen wreaths. Listed under Industry Nos. 2033 and 3984.

## POPULATION AND AREA, 1960

Total Population	674,767
Per cent increase, 1950-60	14.2
Per cent increase, 1940-50	5.6
Net civilian migration, 1950-60	-24,600
Land area — square miles	145,736
Population per square mile	4.6

## EMPLOYMENT, 1960

### Labor Force

Males in labor force, total	308,100
14 to 17 years	7,634
18 to 24 years	35,611
25 to 44 years	127,426
45 to 64 years	90,011
65 years and over	10,418
Females in labor force, total	211,880
14 to 17 years	5,131
18 to 24 years	28,000
25 to 44 years	107,000
45 to 64 years	150,990
65 years and over	6,880

### Employment Status

Persons 14 years old and over	489,980
Labor force	520,000
Per cent increase of labor force, 1950	9.5
Employed civilians	267,260
Unemployed	152,740
Per cent of labor force	29.4
Per cent female	28.5
Percent non-white	8.1
Armed forces	6,908
Not in labor force	169,980
Enrolled in school	39,260
Inmates and others	164,644

### Employed Persons by Major Industry

Agriculture, forestry and fisheries	40,844
Per cent decrease, 1950-1960	25.7
Mining	6,782
Per cent decrease 1950-60	27.1
Construction	14,911
Per cent increase, 1950-60	0.9
Manufacturing	23,439
Per cent increase, 1950-60	25.5
Transportation, communication, public utilities	21,013
Per cent decrease, 1950-60	6.6
Wholesale and retail trade	47,094
Per cent increase, 1950-60	13.1
Finance, insurance, and real estate	8,035
Per cent increase, 1950-60	60.5
Services	51,451

## PART FOUR

# Alphabetical Index of Products

### A

Air conditioning units, 2811  
Ales and fruit drinks, bottled and canned, 2086  
Adhesives, glues, 2891  
Advertising displays, non-electrical, 3993  
Advertising in daily, Sunday, and weekly newspapers, 2711  
Advertising in periodicals, 2721  
Advertising novelties, 3993  
Advertising printed by screen process, 2751  
Advertising printed by letterpress, 275  
Advertising printed by lithographic process, 2752  
Advertising specialties, excluding signs and displays, 399  
Agate jewelry, 3961  
Agricultural implement stock, hardwood dimension mill products, 2426  
Air receivers, metal pressure tanks, standard line, 3443  
Alfalfa meal, sun-dried and dehydrated, 2042  
Aluminum billets, extruded, produced in primary reduction plants, 3334  
Aluminum nails, made in primary reduction plants, 3334  
Animal and livestock feeds, 2042  
Arches and columns, prestressed concrete products, 3272  
Architectural and ornamental metal work, 3449  
Architectural millwork products, 2431  
Art reproductions and picture prints, gravure process, 2751  
Art reproductions and picture prints printed by lithographic process, 2752  
Artistic lamps, 3842  
Asbestos material, 3461  
Ash trays, 3269  
Asphalt, 2911  
Asphalt and tar roofing and siding products, 2952  
Asphalt, liquid and for paving materials, 2951  
Asphalt paving mixtures, 2951  
Automobile seat cover, 2399  
Automotive gasoline, 2911  
Aviation gasoline, 2911  
Awning and casement units, wood for windows, made in millwork plants, 2431  
Awnings and canopies, sheet metal, 3444  
Awnings and painted awning stripes, canvas, 2394  
Axes, 3423

### B

Baby mattress, innerspring and not innerspring, 2515  
Bacon, made in slaughtering plants, 2011  
Bag, case and strap leather, finished cattle hide, 3111  
Bait, artificial, fishing, 3949  
Baked goods, frozen, 2037  
Bakery products, except biscuits, crockers and pretzels, 2051

Bar Spring doors, except wire, 3493  
Barn and barnyard equipment, including parts and attachments, 3522  
Barbecued ribs, processed and packaged, 2099  
Barrel gun, over 30mm, 1911  
Bare furniture, wooden, painted or finished, 2511  
Beans, green and wax, canned, 2033  
Beef, all types except cured, 2011  
Beer, cans or bottles, case goods or barrels, 2082  
Beeswax, processed, 2842  
Beef sugar, refined, 2063  
Beets, canned, 2033  
Belts, leather, waist, finished cattle hide, 3111, 3172  
Beverages, carbonated, dietetic or non-dietetic, bottled or canned, 2086  
Billfolds and belts, leather, 3172  
Biscuit, dry, self-rising mixes (made in flour mills), 2041  
Biscuits, 2052  
Black top (plant mix), 2951  
Blacksmithing and welding, 3591  
Blinds, venetian, vertical and horizontal, 2591  
Blinds, wood, exterior, 2431  
Block concrete aggregate (cinder, shales, slag, slate, etc.), 2271  
Boat repair, all types, 3732  
Boats, inboard and outboard, 3732  
Boilers, jackets, sheet metal, 3444  
Boilers, steel, and parts, 3443  
Bones, product of slaughtering operations, 2011  
Books, all types, 2731  
Booms, heel for logging contractors, 3531  
Bottled and canned soft drinks, 2086  
Boxes, wood, for fruit and vegetables, 2426  
Braces, orthopedic, 3842  
Bread, all kinds, 2051  
Breakfast sausage, not canned, made in slaughtering plants, 2011  
Breakfast sausage, not canned, not made in slaughtering plants, 2013  
Brick, concrete, 3271  
Brick, glazed and structural hollow tile, 3251  
Brick, paving floor and sewer, 3251  
Bridges, fabricated structural metal elements, 3441  
Bridges, wood structural elements, 2433  
Brochures, letterpress printed, 2751  
Brochures, printed by lithographic process, 2752  
Brochures, screen process printing, 2751  
Brooms, 3981  
Building blocks, cement, 3271  
Building materials, gypsum, 3275  
Building parts, sections and panels, wood, for prefabricated and ready-cut buildings, not sold as complete units, 2433  
Buildings, portable type, wood, prefabricated and assembled in this establishment, 2433

### C

Buildings, wood, prefabricated, sold as complete units including those shipped in sections, 2433  
Burial vaults and boxes, precast concrete, 3272  
Burial vaults, metal, plastic, gloss, masonite, 398B  
Business forms, printed by letterpress, 2751  
Business forms, printed by lithographic process, 2752  
Butter, creamery, churned in same establishment, 2021  
Buttermilk, fluid, packaged in this plant, 2026  
Cabinet doors, wood, 2431  
Cabinets, wood, all types, custom specifications, 2431, 2511, 2531  
Calendars and calendar pads, printed by letterpress, 2751  
Calendars and calendar pads, printed by lithographic process, 2752  
Campers and covers, pickup and truck, 3791  
Candles and tapers, 3984  
Candy, all types, bulk and packaged, 2071  
Canned fruits, 2033  
Canned vegetables, 2033  
Canoes, 3732  
Cans, ash, garbage, etc., 3461  
Canvas and related products, 2394  
Carbonated beverages, non-alcoholic, dietetic or non-dietetic, bottled or canned, 2086  
Carrots and peas, canned, 2033  
Carving sets, table cutlery, 3421  
Casement units, wood, for windows, made in millwork plants, 2431  
Cases, display, non-refrigerated, wood, 2541  
Cases, wood, such as china cases, etc., custom built, 2431  
Caskets and coffins, all types, lined and trimmed, not lined nor trimmed, 398B  
Cast stone products for architectural purposes, precast concrete products, 3272  
Cat food, biscuit, pellets and meal, 2042  
Catalogs, printed by letterpress, 2751  
Catalogs, printed by lithographic process, 2752  
Cattle hides, finished to leather, 3111  
Cattle chutes, metal and other miscellaneous farm equipment, 3522  
Cedar fence posts and poles, 2491  
Cement, hydraulic, including Portland, natural, masonry, etc., 3241  
Cement pottery, for garden use, 3269  
Chairs, wood, all types except upholstered, 2511  
Chairs, wood, all types, upholstered, 2512  
Charcoal, soft wood, including briquets, 2861  
Cheese, natural, including cheddar, brick, cream and Swiss, 2022  
Cherries and berries, canned, 2033  
Chickens, hens, dressed and packaged, 2015  
China cabinets, wood, custom built, 2431  
Chips or stocks (potato, corn, etc.) plain or flavored, 2099  
Chips, wood, made in sawmills, 2429  
Chocolate milk and chocolate milk drinks, 2026



## E

Chocolote, package, bulk, confectionery type, 2071  
 Christmas decorations, except electrical, 3999  
 Chrome plating, industrial, 3471  
 Church furniture, 2531  
 Church pews, 2531  
 Chutes, livestock, 3522  
 Clay tile, 3251  
 Cleaners and solvents, toilet, 2842  
 Coaches, trailer housing type, 3791  
 Coal tar, roofing pitch, 2952  
 Coats, fur, and fur linings, 2371  
 Coffins and caskets, all types, lined and trimmed, not lined nor trimmed, 3988  
 Commercial printing, 2751  
 Concrete block and brick, 3271  
 Concrete pipe, 3272  
 Concrete pottery, for garden use, 3269  
 Concrete, ready-mixed, 3273  
 Confectioneries, bulk and packaged goods, 2071  
 Cookies, all types, 2051, 2052  
 Cooking oils, including salad, 2096  
 Copper and copper base alloy mill products, rolled, drawn extruded 3351  
 Copper, ingot and shot, secondary smelting and refining, 3341  
 Counters, wood, 2541  
 Covers, auto seat, 2399  
 Cream, bulk, fluid and packaged, 2026  
 Creamery butter, churned in same establishment, 2021  
 Cross ties, railway, wood, 2421  
 Culvert pipe, concrete, 3272  
 Culvert, metal, 3444  
 Curtains, except lace, made from purchased fabric, 2391  
 Custom slaughtering, livestock and game processing, 2011  
 Cut stock, soft wood, 2421  
 Cutlery, table, kitchen hunting butcher, 3421

## D

Dental instruments, equipment and supplies, 3843  
 Dentures, fabricated, 3843  
 Desks, wood, all types, 2521  
 Desserts, frozen, dairy, 2024  
 Detergents and absorbents, sweeping compounds, 2842  
 Detergents, waterless hand cleaners, 2842  
 Diesel powered industrial trucks and tractors, 3531  
 Display cases, wood, except refrigerated, 2541  
 Distillate fuel oil, 2911  
 Dog food, biscuit, pellets, meal, 2042  
 Doors, metal, all types, 3442  
 Doors, wood, all types, 2431  
 Doughnuts, all types, 2051  
 Drain tile, 3251  
 Draperies, except lace, 2391  
 Dressed lumber, made in sawmills, 2421  
 Dressers, wood, all types, 2511  
 Drinks, soft, canned or bottled, 2086  
 Dwellings, wood, prefabricated, 2433

Earrings, pins, clips, broaches of precious and semi-precious stones and metal, 3911  
 Eclairs, pastries, not frozen, 2051  
 Egg noodles, 2098  
 Electronic warfare systems and equipment, 3662  
 Electroplating plating and polishing, 3471  
 Enamel paint, trade sales products, 2851  
 Enameling of metal, 3479  
 Enamels, oil-type interior, trade sales, 2851  
 Engraving, coating of metal, 3479  
 Evergreen wreaths and other Christmas decorations, 3999  
 Excavation machinery, 3531  
 Exterior oil-type paint 2851  
 Exterior water-type paint, 2851

## F

Fabricated framing and structural members of glued, laminated or sawed lumber or both in combination, 2433  
 Fabricated steel plate, 3443  
 Fabricated structural iron and steel, 3441  
 Farm magazines and periodicals, 2721  
 Farm storage tanks, metal non-pressure, 3443  
 Feed and fertilizer by-products, 2094  
 Feed, all types livestock pet and poultry, 2042  
 Fence snow, wooden complete, 2499  
 Fence gates posts and rails, wood, cedar and other, 2491 2499  
 Fertilizers all types produced in same establishment, 2871  
 Fertilizers, mixed in y. ingredients produced in other plants, 2872  
 Fillers for wood, 2851  
 Finished lumber and moulding, 2421  
 Finishes for wood and metal, residential and industrial, interior and exterior, 2851  
 Fire trucks and other fire equipment, 3713  
 Firearms small, .30mm and under, 1951  
 Fish cured 2031  
 Fish, fresh, packaged 2036  
 Fish, frozen packaged, 2036  
 Fishing bait, artificial, 3949  
 Fishing boats, all types, 3731  
 Flat spinas (steel), 3493  
 Flat wall paints interior oil-type, 2851  
 Flies, fishing, artificial bait, 3949  
 Flooring, softwood, 2421  
 Flour grain blended or prepared, 2041  
 Fluid milk, and other dairy products, 2026  
 Food, prepared, perishable, sold in bulk or packaged, 2099  
 Frames, furniture, wood, 2512  
 Frames, window and door, wooden millwork products, 2531  
 Framing lumber, dressed, made in sawmills and planing mills, 2421  
 Framing, wood, structural, fabricated, 2433  
 Frankfurters, not canned, made in slaughtering plants, 2011

Fresh packaged fish and other sea food, 2036  
 Frozen dairy desserts, 2024  
 Fruit, canned, except frozen, 2033  
 Fruit drinks and ades, beverages not frozen, bottled and canned, 2086  
 Fruit preserves, pure, 2033  
 Fuel oil, 2911  
 Fume, zinc oxide, 2816, 2851  
 Fur apparel coats, capes, jackets, neckpieces, linings, etc., 2371  
 Furnaces, floor and wall, gas and oil fired, 3433  
 Furniture, wood, all types, except upholstered, 2511  
 Furniture, wood, church, 2531  
 Furniture, wood, all types upholstered, 2512

## G

Games and toys except dolls 3941  
 Gasoline and jet fuel, 2911  
 Gasoline dispensing pumps 3586  
 Garage doors, wood 2431  
 Garages wood, prefabricated, complete units or sections, 2433  
 Garbage cans, 3461  
 Garment and glove leather finished cattle hide, 3111  
 General periodicals, other than farm, 2721  
 Glazed brick and tile 3251  
 Gloves, leather, 3151  
 Glues, adhesives and pastes, 2891  
 Grain, for animal feed, ground, rolled chopped, etc., 2042  
 Grain mill products, 2041  
 Granite, cut, building stone 3281  
 Granite, cut products, 3281  
 Granulated beet sugar refined 2063  
 Gravel and sand 3295  
 Gravesones concrete precast, 3272  
 Gravure printing of magazines and periodicals, etc., 2751  
 Grease, (ol animal and marine fats and oils), 2094  
 Greases for lubricating made in refineries, 2911  
 Groundwood pulp, including chemi-ground, 2611  
 Guidance and navigation systems and equipment, missile form and space vehicle borne, 3662  
 Gunstocks, 2426  
 Gypsum building materials, plaster, plaster-board, etc., 3275  
 Gypsum, crushed and ground 3295

## H

Hail (milk) and half (cream) packaged at this plant, 2026  
 Ham boiled or smoked, not canned, processed in slaughtering plants, 2011  
 Harvesting machinery and parts and attachments, 3522  
 Hatchets, 3423  
 Haying machinery and parts, 3522  
 Heat exchangers and steam condensers, boiler shops, 3443  
 Heaters and ventilator units, 3433  
 Heaters, units and parts, 3433

- fur, 2033
- fur and imitation, 2033
- fuel and gasoline, 2911
- welry, costume, except precious metal, 3961
- jewelry, made from precious and semi-precious metals and stones, 3911
- lab skimming, except automotive, 3461
- joiners, matchers, malders, and other woodworking machinery, except for home use, 3553
- lois, beams, girders and pilings, prestressed concrete products, 3272

Kerosene 2911  
Key cases, 3172  
Kitchen cabinets, wood, all types, 2511  
Knives, 3421

Labels and wrappers printed by lithographic press, 2751  
Lacquering of metal, 3479  
Lacquers all types, 2851

**M**

Machinery and parts for planting seed and fertilizing, etc., 3542

Machinery and equipment, sawmills, 3553

Machines, farm, including parts, attachments, 3522

Machines for preparing farm crops for markets, attachments, 3522

Magazine and periodical printing by letterpress, 2751

Magazine printing by gravure, 2751

Magazine printing by lithographic process, 2752

Magazine, farm, subscription and single copy sales, 2721

Mantels, wood, to be built in per custom specifications, 2431

Maps, all types, printed by lithographic process, 2752

Maps, all types, printed by letterpress, 2751

Marble, cut, monumental, 3281

Marble, cut, products, 3281

Marine and animal oil products including grease and tallow, 2094

Marine paints, 2851

Matched lumber, dressed, made in sawmills and planing mills, 2421

Mattresses, innerspring and spring cushion, 2515

Meal, alfalfa, sun cured and dehydrated, 2042

Meal, meat and bone, dried blood and feather meal, 2094

Meat meal, 2094

- Meat scraps, for feed or fertilizer, 2094
- Meat variety (beef, pork, veal, lamb, heart, liver, kidneys etc.), 2011
- Medicine cabinets, built to custom specifications, 2431
- Metal combination screen and storm sash and doors, 3494
- Metal plumbing fixtures, 3494
- Metal tanks and vessels, all types, 3443
- Metal valves for piping systems, 3494
- Metal windows, sash and frames, 3442
- Milk and cream, bulk and packaged, 2026
- Milk drinks, flavored, including chocolate, 2026
- Mill white paints, interior, oil type, 2851
- Mill work wood, 2431
- Mine ties wood, sawed, 2421
- Mineral mixtures for animal feeds, 2042 3333
- Minerals and earths ground or otherwise treated, 329
- Missile-borne and space vehicle-borne guidance equipment 3602
- Molasses- not made in sugar refineries, 2099
- Molding and trim, metal, 3442
- Molding wood, made in sawmills and planing mills 2421, 2431
- Monumental cut stone granite, 3281
- Moss and brooms, 3981
- Motor boats, all types, 3732
- Motor gridders and light maintainers, 3531
- Moulding lined wood for window and door trim, 2421
- Moulding wood, 2431
- Moulding wood, 2071
- Moulding wood, processed in slaughtering plants, 2011

Non-ferrous metal, including welder, brick, cream and  
 2810-2820  
 Natural organic fertilizers, 2871  
 Navigation and guidance systems and equipment, 3662  
 Naval vessels, 2371  
 Naval vessels, made of precious or semi-precious metal and  
 2911  
 Neon tubes (electrical) 3993  
 Newspapers advertising daily, Sunday, and weekly, 2711  
 Newspapers, printed by lithographic process, 2752  
 Newspapers ready prints shopping news and circulars,  
 2751  
 Night tables, wood, 2511  
 Nitrogen, industrial, 2813  
 Non-pressure tanks, metal, 3443  
 Noodles and noodle products, except canned, 2098

Oat millfeed and other oat grainmill products, 2041  
Office furniture, wood, 2521  
Offset lithographic printing, 2752  
Oil paints, ready mixed, including enamels and varnishes, 2851  
Oil storage tanks, non-pressure, 3443  
Oils for lubrication made in refineries, 2911



Oils, unfinished and lubricating oil base stock, 2911  
 Oils, vegetable (other than cottonseed, soybean, and linseed), 2093  
 Ornamental iron work, 3449  
 Orthopedic, surgical, prosthetic appliances and supplies, 3842  
 Outboard motor boats, 3732  
 Outdoor furniture, wood, except upholstered, 2511  
 Oxide fumes, zinc, 2816  
 Oxygen, industrial, 2813

## P

Pack saddles, 3199  
 Paint and varnish removers, 2851  
 Paint, barn and roof, oil-type paints, 2851  
 Paint brush cleaners, 2851  
 Paint, emulsion, water-type exterior, 2851  
 Paint, gloss and semi-gloss, oil-type interior, 2851  
 Paint, interior oil-type, 2851  
 Paint, marine, oil-type, 2851  
 Paint removers, 2851  
 Paint, undercoating and primers, 2851  
 Paints, emulsion water-type interior, 2851  
 Paints, water-thinned, interior and exterior, 2851  
 Pamphlets, printed by lithographic process and gravure, 2752  
 Pamphlets, printed by letterpress, 2751  
 Pancake, dry mixes, made in flour mills, 2041  
 Panels, made out of prestressed concrete, 3272  
 Panels, prefabricated building wood, 2433  
 Panels, wood, for built-in cabinets, 2431  
 Paper, industrial, made in paper mills, 2631  
 Partition lumber, dressed, made in sawmills and planing mills, 2421  
 Partitions, wood for prefabricated and pre-cut buildings, 2433  
 Parts and accessories for passenger cars, trucks, buses, etc., 3717  
 Parts and accessories for construction machinery, 3531  
 Parts and accessories for industrial trucks and tractors, trailers and stackers, 3537  
 Parts and attachments for small arms, 30mm and under, 1951  
 Parts for piano and organ, 3931  
 Pastries, all types, not frozen, 2051  
 Peas, canned, 2033  
 Peat moss, fertilizer, 2879  
 Perishable prepared foods, bulk or packaged, not frozen, 2099  
 Periodical and magazine printing by letterpress, 2751  
 Periodical and magazine printing by lithographic process, 2752  
 Periodicals, form, 2721  
 Periodicals, general, 2721  
 Petroleum, 2911  
 Pews, church, 2531  
 Phonograph cabinets, wood, 2511  
 Phosphated flour, dry mixes made in flour mills, 2041  
 Phosphatic fertilizer material, 2819  
 Phosphates of sodium and potassium, 2819

Physiotherapy equipment, 3693  
 Piano parts (excluding benches), 3931  
 Pickets, wood, for fencing, 2421  
 Pickup campers and covers, 3791  
 Picnic table sets, wood, outdoor, 2511  
 Pie crust, dry mixes, made in flour mills, 2041  
 Pie mixes, fruit, canned, 2033  
 Piling, post and poles, precast concrete, 3272  
 Piling, wood made in sawmills, 2421  
 Pipe, concrete, 3272  
 Pipe fittings, 3494  
 Pipe, furnace and stove, of sheet metal, 3444  
 Pitch, roofing, cool tar, 2952  
 Planing and surfacing machines, industrial, 3553  
 Planks, wooden, 2421  
 Planting, seeding, fertilizing machinery and part, 3522  
 Plaques, pottery, 3269  
 Plaster, building gypsum, 3275  
 Plaster, industrial gypsum, 2275  
 Plastic, miscellaneous products and novelties, 3079  
 Plastic formed products, 3079  
 Plate steel fabricated, 3443  
 Platform trailer truck 3715  
 Plating, polishing, electroplating, anodizing, etc., 3471  
 Plows, listers and parts, 3522  
 Plumbing fixtures, fittings and trim, brass goods, 3433  
 Plywood, softwood, 2432  
 Plywood products, except particle board, 2432  
 Plywood, exterior and interior, softwood, 2432  
 Poles and posts, treated by this plant, 2491, 2421  
 Popcorn except candied, bulk or packaged, 2099  
 Porch furniture, wooden, outdoor 2511  
 Pork fresh and frozen, 2011  
 Pork, processed or cured in slaughtering plants, 2011  
 Pork processed or cured not in slaughtering plants, 2013  
 Portland cement, 3241  
 Posters, printed by letterpress, 2751  
 Posts and poles, wood, treated by this plant, 2491, 2421  
 Pot cheese, 2026  
 Potato chips, 2099  
 Pottery, art decorative, 3269  
 Pottery, garden, 3269  
 Poultry dressed and packed, 2011, 2015  
 Poultry feed, complete, supplements and concentrates, 2042  
 Precast concrete products, 3272  
 Pre-cut buildings and parts, wood, 2433  
 Prefabricated buildings and parts, wood, 2433  
 Preserves fruit, pure, 2033  
 Preserving wood, contract receipts, 2491  
 Pressure pipe concrete, 3272  
 Pressure tanks and vessels, metal, 3443  
 Presto-logs and hog-fuel, 2421  
 Prestressed concrete products, 3272  
 Printing, letterpress, 2751  
 Printing by gravure, 2751  
 Printing by lithographic process, 2752  
 Prosthetic appliances, 3842  
 Public address systems, 3651  
 Pulp and pulp mill by-products, 2611

Pulp wood, 2411  
 Pulpits, church furniture, 251  
 Pumps, filling stations, gasoline, 3586  
 Purses and handbags, leather, 311

## R

Racks and boxes for mounting on wagons, trucks and trailers for farm use, 3522  
 Railroad cross-ties, wood, 2421  
 Ready cut buildings and parts, wood, 2433  
 Ready-mixed concrete, 3273  
 Refuse, animal, wet or dry, 2094  
 Removers, paint and varnish, 2851  
 Repair, boats, all types, 3732  
 Residual fuel oil, 2911  
 Rilles and parts, recoilers, 30mm or under, 1951  
 Road oil, 2911  
 Rockers, upholstered, wood, 2512  
 Rockers, wooden except upholstered, 2511  
 Rolls, bread-type 2051  
 Roof and floor unit, precast concrete products, 3272  
 Roofing asphalt, 2952  
 Roofing cement, 2952  
 Roofing granules 3295  
 Roofing sheet metal, 3444  
 Roof trusses, wood for prefabricated and pre-cut building, 2433  
 Rough lumber sawed in sawmills 2421  
 Rowboats, 3732  
 Runabout boats, inboard and outboard, 3732  
 Rye flour, 2041  
 Rye produced in grain mills 2041

## S

Saddlery and harnesses, leather, 3199  
 Safety control equipment, electrical, 3662  
 Safflower oil 2093  
 Sailboats, 3732  
 Salad or cooking oils, refined 2093 2096  
 Salami not canned, made in slaughtering plants, 2011  
 Salami, not canned, not made in slaughtering plants, 2013  
 Sand and gravel, 3295  
 Sandwich bread, 2051  
 Sandwiches, crackers, 2052  
 Sash and frames, metal 3442  
 Sash, wood door and window, 2431  
 Sausage, not made in slaughtering plants, 2013  
 Sausage made in slaughtering plants, 2011  
 Sawing of logs 2421  
 Sawmill equipment and machinery, 3553  
 Screen doors, wood, including combination screen and storm, 2431  
 Screens, ornamental wood, 2511  
 Screens window wood frames, 2431  
 Sealers for wood, 2851

Sea covers for automobiles, from purchased fabric, 2399  
 Seats, church, 2531  
 Seeding, planting, harvesting and fertilizing machinery and parts, 3522  
 Self-rising flour and flour mixes, made in flour mills, 2041  
 Semi-trailers for truck tractors, 3715  
 Septic tanks, concrete, 3272  
 Septic tanks, metal, 3443  
 Servers, dining room, wood, 2511  
 Settees, except upholstered, wood, 2511  
 Settees, upholstered, wood, 2512  
 Sewer pipe, concrete, 3273  
 Sewing machine cabinets, wooden, 2511  
 Shades for windows, 2591  
 Sheet metal roofing and siding, 3444  
 Shellac and spirit varnishes, 2851  
 Shelters, wood, prefabricated, 2433  
 Shelves, wood, 2511  
 Sherbet, 2024  
 Shiplapped lumber, dressed, made in sawmills and planing mills, 2421  
 Show cases, wood, office and store, non-refrigerated, 2541  
 Siding, lumber, dressed, made in sawmills and planing mills, 2421  
 Sign letters, 3993  
 Signs, all types, 3993  
 Silver and lead, smelting and refining, 3332  
 Skis, 3732  
 Skim milk, packaged, 2026  
 Slabs, tile and panels, prestressed concrete products, 3272  
 Slate stone, cut and polished for building purposes, 3281  
 Snail arms, 30mm and under including parts, 1951  
 Smoke pipes, sheet metal, 3444  
 Smoked pork, made into sausage, not made in slaughtering plants, 2013  
 Smoked pork, made into sausage, made in slaughtering plants, 2011  
 Snow fence lath stock, 2421  
 Snow fence, wooden, complete, 2499  
 Snow mobiles on skis, 3522  
 Sodium phosphate, 2819  
 Solas, wood, including upholstered, 2512  
 Soft drinks, canned and bottled, 2086  
 Softwood cut stock, 2421  
 Softwood flooring, 2421  
 Softwood plywood, interior and exterior, 2432  
 Softwood veneer, 2432  
 Soil conditioners, 2879  
 Sound equipment, 3651  
 Sour cream, packaged, 2026  
 Space satellite and other IR detection systems, 3662  
 Speakers, radio phonograph, 3651  
 Spices, ground, including pepper, nutmeg, etc., 2099  
 Spring cushions, 2515  
 Springs, bedsprings, 2515  
 Springs, steel automotive, 3493  
 Stalkers, hay, 3522  
 Stakes, wood used by surveyors, 2421, 2499  
 Stains, oil-type, interior and exterior, 2851  
 Stamps, rubber and metal, 3953  
 Starch, corn, potato, wheat, barley, etc., 2046

Starch, laundry, made from barley, 2046  
 Steel casement window and door sash and frames, 3442  
 Steel, fabricated, 3441  
 Steel heating boilers, steam or hot water, 3433  
 Steel plate, fabricated, 3443  
 Steel springs, 3493  
 Stone, cut for buildings and monuments, 3281  
 Stones, preparation of real and imitation gems, 3911  
 Stools, wood, 2511  
 Storage tanks, metal, custom fabricated, 3443  
 Storm doors and sash, metal combination, 3442  
 Storm doors and sash, wood, including combinations, 2431  
 Structural elements for buildings and construction, wood, 2433  
 Structural fabricated metal, all types, 3441  
 Studs, wood, 2421  
 Sugar, beet, refined, including by-products, 2063  
 Sugar, confectioners' powder beet, 2063  
 Sulfur compounds, refined, 2819  
 Sulfuric acid, 2819  
 Superphosphate and other phosphatic fertilizers, 2871  
 Superphosphate, normal and enriched, 2871  
 Survey stakes, wood, 2421, 2499  
 Sweeping compounds, 2842  
 Sweet rolls, yeast, raised, 2051  
 Swiss cheese, 2022

## T

Table and hunting cutlery (knives), 3421  
 Tables, and table sets, wood, 2511  
 Talc, ground, 3295  
 Tallow, inedible, 2094  
 Tanks and vessels, metal pressure and non-pressure, 3443  
 Tanks, storage, concrete precast, 3272  
 Tarpaulins, canvas, made from purchased fabric, 2394  
 Tents, canvas, made from purchased fabric, 2394  
 Terrazzo chips, for roofing and tile products, 3295  
 Ties, wood, for railroad use, 2421  
 Tile and brick, glazed facing, 3251  
 Tile, made of prestressed concrete, 3272  
 Tillers, for farm use, 3522  
 Timbers, heavy decking, fabricated or laminated, 2433  
 Tongs, metal, (logging equipment), 3531  
 Tools, hand and specialized power-grip, 3423  
 Toys, animals, dolls, puppets, 3941  
 Toy trains and equipment, 3941  
 Tractors, shovel loaders, and other contractor off-highway equipment, 3531  
 Tractors, wheel, parts and attachments, 3522  
 Trailer coaches, housing type, 3791  
 Trailers, automotive except house type, 3791  
 Trenchers and ditchers, self-propelled, 3531  
 Trim, wood, door and window, 2431  
 Trucks, fire and other, fire equipment, 3713  
 Truck tanks, metal, pressure and non-pressure, 3443  
 Truck trailers and chassis, 3715  
 Trucks off-highway, scrapers, graders, etc. for construction work, 3531  
 Typewriter desks, wood, 2511

## U

Unpainted wood furniture, 2511  
 Upholstered wood furniture, 2512  
 Utility cabinets, wood, custom made, 2511

## V

Valves, metal, 3494  
 Varnish, 2851  
 Vases, pottery, 3269  
 Vats, sheet metal, 3444  
 Vaults and boxes, burial, precast concrete, 3272  
 Vaults, burial, 3988  
 Veal, processed in slaughtering plants, 2011  
 Vegetable oils (other than soybean, cotton seed), 2099  
 Vegetables, canned, 2032  
 Veneer, softwood, 2432  
 Venetian blinds, 2591  
 Vessels and tanks, metal, custom fabricated, 3443

## W

Wallets, leather, 3172  
 Walls, wood, for prefabricated and pre-cast buildings, 2433  
 Warm air furnaces, parts and attachments, 3433  
 Waxes from petroleum refining, 2911  
 Weeders and cultivators, farm, including parts and attachments, 3522  
 Welding shops (job shops) 3591  
 Wheat flour, 2041  
 Wheat millfeed, 2041  
 Wheel tractors and parts and attachments, 3522  
 Whole wheat flour, 2041  
 Wieners, not canned, made in slaughtering plants, 2011  
 Window curtains and draperies, 2391  
 Window frames, wood, 2431  
 Window sash and frames, metal, 3442  
 Window sash, wood, 2431  
 Window shades, 2591  
 Wood bedroom furniture, 2511  
 Wood chips, 2429, 2421  
 Wood frames for household furniture, 2512  
 Wood kitchen cabinets, 2511  
 Wood moulding, 2431  
 Wood preserving, 2491  
 Wood pulp, 2611  
 Wood window and door frames, 2431

## Y

Yeast and yeast products, for food or feed purposes, 2099  
 Yeast raised goods, including doughnuts, sweet rolls, etc., 2051

## Z

Zinc dross, (mineral additive for animal feeds), 3333  
 Zinc oxide fumes, 2816, 2851

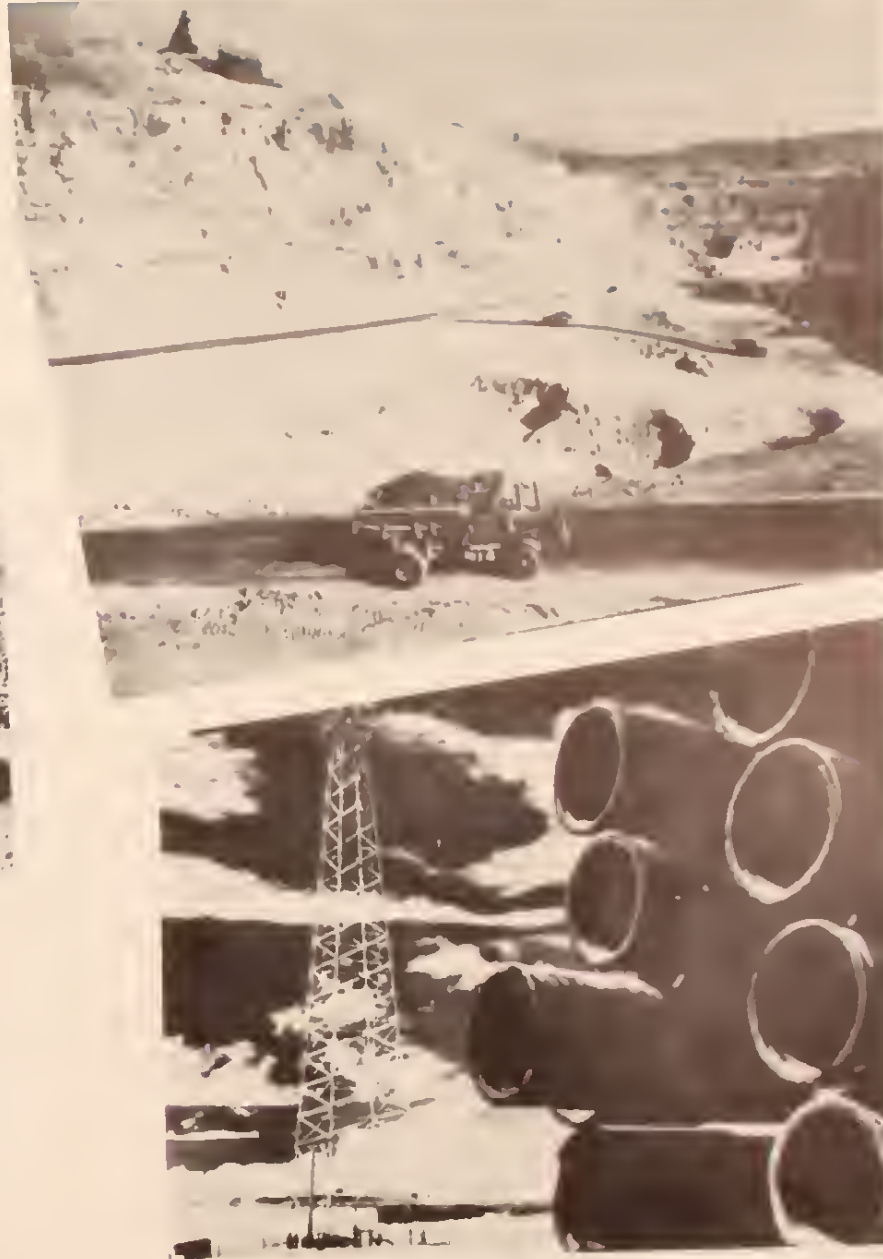




ABOVE—CHRISTMAS TREE YARD AT KALISPELL. THE NORTHWESTERN AREA OF MONTANA HAS BECOME KNOWN AS THE "CHRISTMAS TREE CAPITAL OF THE WORLD." CUTTING BEGINS AFTER THE FIRST HARD FREEZE IN THE HIGH COUNTRY AND TREES ARE SHIPPED ALL OVER THE NATION EACH YEAR.

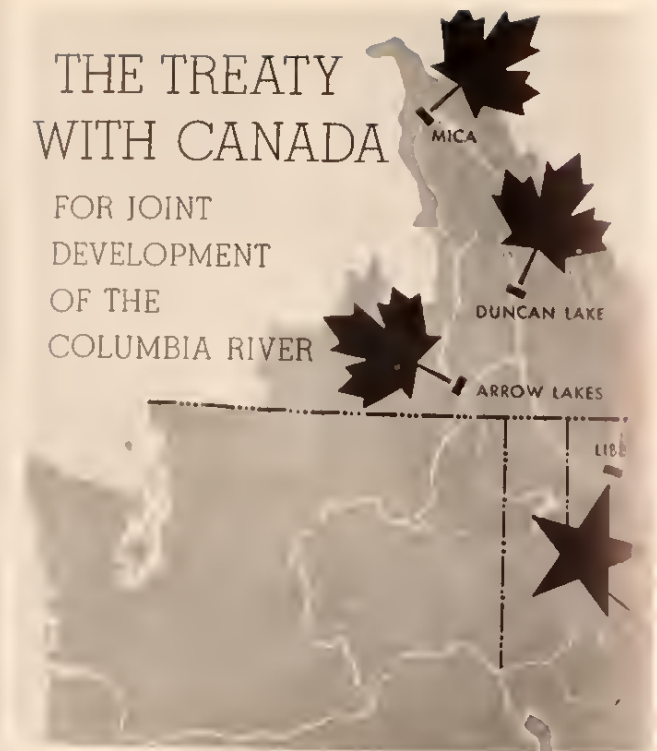
ABOVE RIGHT—THE "BERKLEY PIT," COPPER ORE AT BUTTE, MONTANA, IS MINED ON THE SURFACE AS WELL AS UNDERGROUND. THE FAMOUS CITY, "A MILE HIGH AND A MILE DEEP," IS TUNNELED WITH MINES. TOURISTS FIND FASCINATION IN WATCHING OPEN-PIT MINING FROM U. S. HIGHWAY 91. FREE TOURS DEEP INTO THE UNDERGROUND MINES ARE CONDUCTED DAILY IN THE SUMMER.

RIGHT—OIL AND ITS RELATED PRODUCTS PLAY A LARGE PART IN MONTANA'S ECONOMY. MANY OIL DERRICKS AND PUMPS ARE VISIBLE WHEN TRAVELING ACROSS NORTHERN MONTANA. THIS DERRICK IS NEAR GLENDIVE.



## THE TREATY WITH CANADA

FOR JOINT  
DEVELOPMENT  
OF THE  
COLUMBIA RIVER



ABOVE: EXISTING AND POTENTIAL POWER DEVELOPMENT COLUMBIA RIVER AND UPSTREAM TRIBUTARIES

BELOW: ENGINEER'S CONCEPTION OF NEW LIBBY DAM



## BIG THINGS ON THE HORIZON FOR WESTERN MONTANA!

The Columbia River in its upper reaches in Canada flows almost as wild and untamed today as it did when the first white explorers saw it. By contrast, the river on the United States side of the border is highly developed.

The Columbia River Treaty is a plan developed by the Canadian and United States governments to harness the upper Columbia and develop its potential to the mutual advantage of both countries.

The United States derives two major benefits from the Treaty. One is flood control—ending the danger of serious flooding on both the Columbia and Kootenai rivers. The other is a large block of low-cost power. For her part, Canada also receives flood control on the Columbia and Kootenay (Kootenai in the United States) and a large block of cheap power.

(Continued on Page 253)



Canada will build three dams in British Columbia scheduled for completion in 1968, 1969, and 1973. The Treaty allows the United States to construct a fourth dam, Libby, in northwestern Montana. It will back water 42 miles into Canada. These dams will more than double the amount of water that can be stored to regulate flows on the main stem of the Columbia River.

This means that water now flowing unchecked to the sea will be held back to control floods and released as needed to produce power at dams downstream in Canada and in the United States.

There are now 11 dams operating or under construction on the United States sector of the Columbia River. Six are owned by the United States and five by public utility districts of the State of Washington.

The regulation of stream flows made possible by the three Canadian reservoirs will enable dams in the United States to produce 2.8 million kilowatts of dependable capacity, which Canada and the United States share equally. Canada has sold her share in the United States on a long-term contract. The downstream power benefits attributable to each Canadian project will go to the United States purchasers for 30 years following the completion of each project. Thereafter, they revert to Canada.

Libby Dam will add to this supply about 750,000 kilowatts of firm power at site and downstream in the United States. Thus total Treaty power benefits in the United States, including Canada's share, initially will be 3.5 million kilowatts. Canada, too, will reap downstream benefits from Libby Dam, estimated by the British Columbia Hydro and Power Authority to be about 200,000 kilowatts.

The Treaty and the Pacific Northwest-Pacific Southwest Intertie make essential the construction of a third powerhouse at Grand Coulee Dam. Ultimately the third powerhouse will have installed generating capacity of 3.6 million kilowatts. Grand Coulee then will have a capacity of 5.6 million kilowatts, larger than any existing hydro plant in the world.

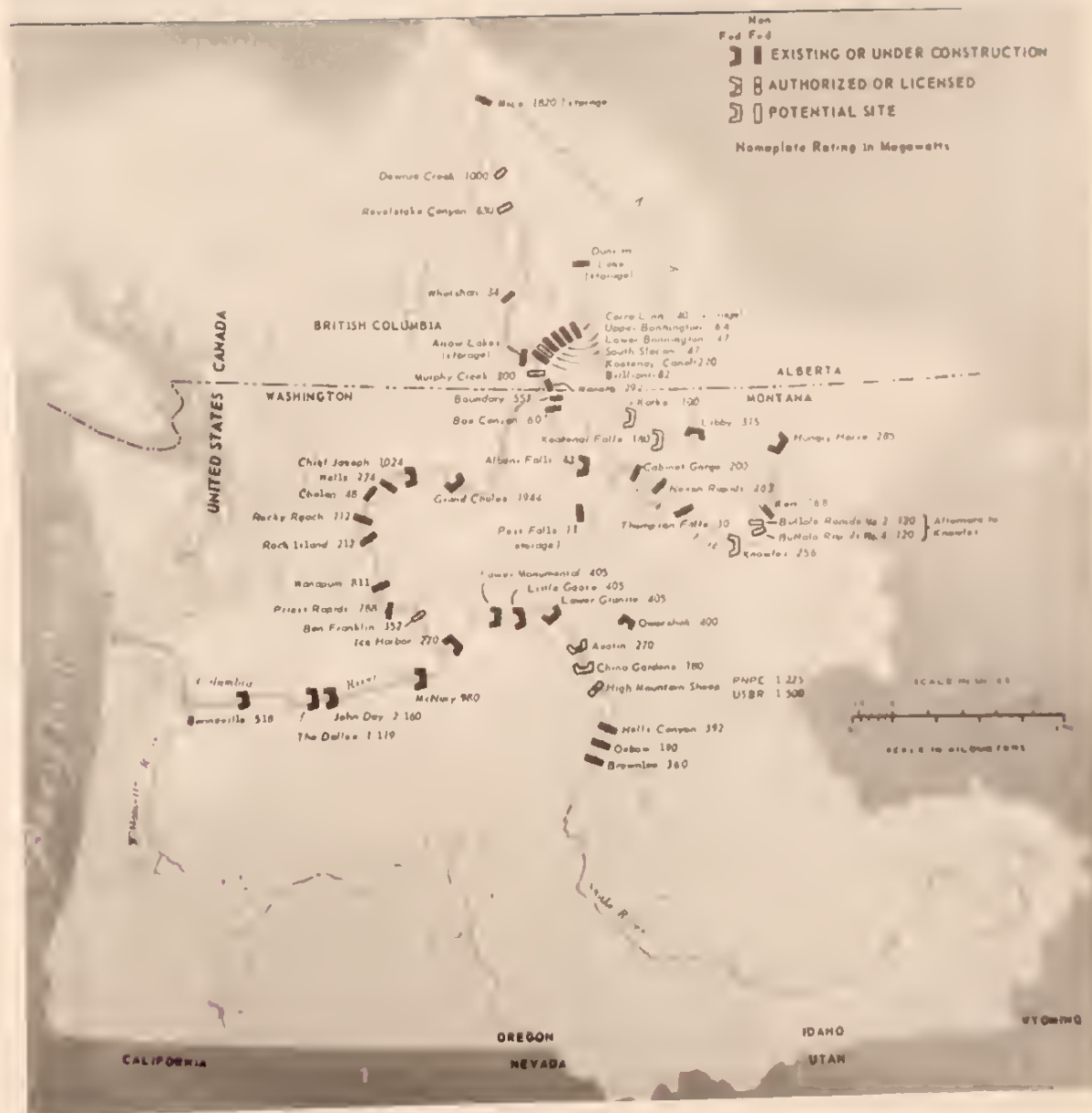
The Treaty projects, by leveling out the flows of the Columbia and increasing those flows during periods of low water, will assist in the solution of pollution problems on the lower Columbia River.

## THE COLUMBIA RIVER

Heavy snows and rains which fall on the Canadian Rockies create the source of the Columbia River. From Columbia Lake in British Columbia, deep in the rocky spine of the North American continent, the Columbia River flows northward for 200 miles, then abruptly turns south. It enters the United States near Northport, about 90 miles north of Spokane, Washington. From its source in Columbia Lake to its mouth in the Pacific Ocean the river flows 1,240 miles and drops 2,650 feet. Five hundred miles and 1,350 feet of the river's descent are in Canada.

Although only 15 per cent of the drainage area of the Columbia River is in Canada, about 30 per cent of its total flow originates there. In the 1948 flood which destroyed Vanport, Oregon, about 28 per cent of the Columbia waters came from Canada.

(Concluded on Page 254)





## ANOTHER SOURCE OF B. P. A. ELECTRIC POWER HUNGRY HORSE DAM

Construction photographs of Hungry Horse Dam and Reservoir, a part of the Bonneville Power System, located on the South Fork of Flathead River. Completed in 1953, this huge dam, one of the ten largest in the world, took five years to build. There were 3,100,000 cubic yards of concrete used in making the dam. The measurements are 2,115 feet across the crest, 564 feet high, 330 feet thick at the base, and 39 feet thick at the top. The Reservoir measures 3,468,000 acre-feet, and is 35 miles long. The dam has four generators plus four 105,000 horsepower turbines. The capacity of the generators is 285,000 kilowatts.



The Columbia is the fourth largest river on the continent. Only the Mississippi, the Mackenzie, and the St. Lawrence travel farther and carry more water. The Columbia's flow is 10 times that of the Colorado,  $2\frac{1}{2}$  times that of the Nile. It has one-third of the hydroelectric potential of the United States. As a source of power, the Columbia is the mightiest stream on the North American continent.

The Columbia River and its tributaries drain a basin larger than France. The basin contains 259,000 square miles.

The tributaries of the Columbia rise high in the region's mountains where they are fed by snows and rain. As the seasons change and the snows melt, the Columbia River and its tributaries fluctuate widely. At Revelstoke, British Columbia, the Columbia River's largest measured flow is 99 times greater than the lowest. At the International Boundary, 130 miles south of Revelstoke, the Columbia's largest flow of record is 550,000 cubic feet per second, its smallest 14,000 cfs.

These characteristics intensify the problems of flood control and power production. The solution to both of these problems is to build storage dams to control the river and thus alleviate flood losses while regulating the flow to increase firm power production. Although equivalent control could be achieved by building storage on Columbia River tributaries within the United States, the sites where the needed amount of storage can be built at the least initial cost are in Canada. The Treaty provides for development of this storage to benefit both Canada and the United States.

## TREATY SUMMARY

Canada under the Treaty will develop 15.5 million acre-feet of water storage by building Duncan, Arrow, and Mica dams in British Columbia. All of this is usable for power production and for flood control.

Canada under the Treaty has agreed to operate 8,450,000 acre-feet of storage for flood control in the United States. The United States may call on Canada for additional flood control, but if it does so it must pay for this added flood control.

Two of the Canadian storage dams, Mica and Arrow, will be on the main stem of the Columbia. The third, Duncan, will be built on a tributary of the Kootenay.

Duncan Dam is to be completed by April 1, 1968; Arrow Dam by April 1, 1969; and Mica Dam by April 1, 1973.

The United States has the option to begin building Libby Dam on the Kootenai River in Montana. Libby Dam will add 5 million acre-feet of storage, all of it usable both for power and flood control.

Existing United States storage on the Columbia River and its tributaries, including non-federal installations, totals 18 million acre-feet—all usable for power production and over 10 million acre-feet usable for flood control. United States projects under construction or authorized add 2.5 million acre-feet, all usable for power production and flood control.

Total storage on the Columbia and its tributaries will be 41 million acre-feet of which about 26 million acre-feet will be usable for flood control, as shown in the following table:

	Usable for power (Million acre-feet)	Usable for flood control (Million acre-feet)
Existing U. S. Columbia River Storage	18.0	10.0
U. S. Projects under Construction	2.5	1.9
Three Canadian Treaty Dams	15.5	8.45
Libby Dam	5.0	5.0
Total	41.0	25.35

1/ Under the Treaty the United States has paid for the use of 8,450,000 acre-feet of storage for flood control. The remaining 7 million acre-feet may be used on an "on-call" basis for control of large floods with additional payment to Canada.

## OPERATING PLAN

Pursuant to the Treaty, each nation has designated an operating entity. Canada's entity is British Columbia Hydro and Power Authority. The United States entity consists of the Administrator of the Bonneville Power Administration and the Division Engineer, North Pacific Division, Army Corps of Engineers. The entities are charged with the duty to formulate and carry out the operating arrangements necessary to implement the Treaty.

Canada will operate her three storage dams in accordance with plans agreed upon for optimum power generation and flood control on the Columbia River in United States and Canada. The three Canadian projects are to be operated in coordination with all U. S. Columbia Basin projects. The purpose is to make the most effective use of the improvement in streamflows resulting from storage at the three Canadian dams.

A base system of 24 projects was used in determining power benefits under the Treaty. This base system includes Kootenay Lake in British Columbia, the 11 dams on the main stem, and 12 dams on Columbia tributaries. A 25th dam, Ben Franklin, may be built in future years on the Columbia River above McNary Dam. It will be taken into consideration for coordination if it is built.

Most of the Treaty power will be produced in the 11 main stem dams. The United States Government owns 6 of the 11 main stem dams. Public utility districts own the other 5. The federal dams are Bonneville, Grand Coulee, McNary, The Dalles, Chief Joseph and John Day, the latter still under construction. Non-federal main stem dams are Rock Island and Rocky Reach owned by Chelan County PUD; Priest Rapids and Wanapum owned by Grant County PUD; and Wells which is being constructed by Douglas County PUD.

The 12 base system dams on tributaries in the United States are in federal, public and private ownership. They are Hungry Horse, Kerr, Thompson Falls, Noxon Rapids, Cabinet Gorge, Albeni Falls, Box Canyon, Brownlee, Oxbow, Ice Harbor, Chelan and Coeur d'Alene.

Canada and the United States have agreed upon formulae for equal sharing of the power and flood control benefits that the United States will receive from three Canadian projects.



44109 A



# **BIG GAME HUNTING** in the **BIG SKY COUNTRY**

**Whether it's Mountain Elk  
Prairie Antelope . . . Montana  
Offers Some of the Best Big  
Game Hunting in the U. S.**

Below is a tabulation of the 1962 big  
game harvest from the 10 National Forests  
in Montana:

	Game Harvest
Antelope	1,505
Black Bear	1,277
Grizzly Bear	47
White-Tailed Deer	8,395
Mule Deer	45,456
Moose	533
Elk	9,109
Mountain Goat	487
Bighorn Sheep	106
	<hr/> 66,915



WILDLIFE NATIONAL FORESTS in the state are open to hunting and fishing, subject to licenses issued by the Montana Fish and Game Commission. In 1962 sportsmen made 576,310 hunting visits to National Forests in Montana. That year 851,800 fishing visits were recorded on these public lands.

National Forests provide some of the best big game hunting in the Northwest.

PHOTOS BY U. S. FOREST SERVICE





**NEW WATERTIE BENEFITS  
A MILLION CUSTOMERS**

Montana is a key state in a new electric transmission-high-voltage interstate which will link the systems of five investor-owned power companies serving a million customers in the northern Rocky Mountains. Two sections of a 230,000-volt line were completed in 1961.

The two sections of line completed in Montana are from Nacoochee, Rapier's dam, Washington Water Power Company, the west end of the line. The line is a distance of approximately 75 miles and runs from Spruce Knob, Idaho, to the Montana Power Company's 30 miles of line, which is the longest in the system. In the future, the line will extend to the north to the Canadian border.

The line will provide a means for transmitting power from the Montana Power Company's Nacoochee dam, which is the largest in the system, to the Montana Power Company's 30 miles of line, which is the longest in the system. The line will also provide a means for transmitting power from the Montana Power Company's Nacoochee dam, which is the largest in the system, to the Montana Power Company's 30 miles of line, which is the longest in the system.

Montana is a key state in a new electric transmission-high voltage interstate which will link the systems of five privately owned power companies serving a million customers in the northern Rocky Mountains. Two sections of a 230,000 volt line were completed in 1967.

The two sections of line completed in Montana are from Naxos Rapids dam to Washington Water Power company's west end of the Snake River as a distance of approximately 75 miles and from Spruce Knob second phase to Little Bow valley 30 miles of line at which time it branches off to the north and east phases of river to national interlocking system and the Mountain Power utility through the river and its tributaries of Yellowstone and Snake rivers.

This line also will connect the existing line between the two states and provide a direct route to the south where it connects with the Pacific Northwest power area and extends down to California and Oregon and provides one of the main links in the interstate system.

Little Bow valley power house next in line will be built by the





## The TERRACE

### RESTAURANT



COCKTAILS — SELECT WINES  
BARBECUED STEAKS — CHICKEN  
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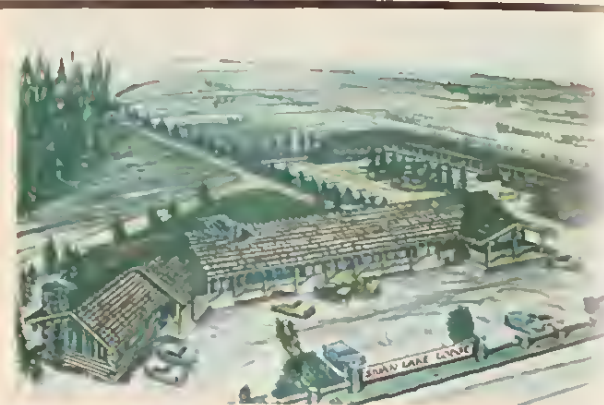
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MAP OF SWAN VALLEY - LINCOLN AREA



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PICTURES: ARCHITECTURAL CONCEPTION OF  
NEW ADDITION TO OUR FACILITIES

WATER SKIING

OFFICE ON LAKE FRONT

BELOW: BOATING IS GREAT IN MONTANA



MAP  
RUN BY  
COURTESY  
OF SWAN  
VALLEY  
LODGE

LEFT: FISHING  
PICTURE  
COURTESY OF  
SWAN RIVER  
Tavern & Cafe



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Park Trips Arranged — Have A Real Western Vacation  
Experienced Guides - Fine Hunting and Fishing - Information Gladly, Any Time



ABOVE: LEEPERS MOTEL IN A PARK-LIKE  
ATMOSPHERE MAKES FOR REAL  
VACATION ENJOYMENT



SIGN AT PONDEROSA HARDWARE  
IN CENTER OF LINCOLN BECKONS  
YOU TO STAY AND GET  
ACQUAINTED WITH OUR  
MANY FINE PEOPLE



ABOVE: NEW LEWIS & CLARK CAMP.  
GROUND—3 MILES WEST OF LINCOLN  
ON HIGHWAY 20—ON THE  
BLACKFOOT RIVER



ABOVE: LAMKINS CORNER BAR AND  
LOUNGE—A GOOD PLACE FOR A  
CONGENIAL HOUR

THE LINCOLN AREA WAS USED BY  
THE MONTANA INDIAN TRIBES  
BEFORE THE WHITE MAN ARRIVED  
HUNTING IN THIS AREA HAS AL-  
WAYS BEEN SO GOOD THAT SAY-  
AGE BATTLES TOOK PLACE BE-  
TWEEN THE DIFFERENT TRIBES  
FOR CONTROL OF THE AREA  
THE FIRST GOLD NUGGET THAT  
WAS FOUND IN THE AREA WAS  
SENT TO PRESIDENT LINCOLN &  
THAT WAS HOW THE NAME  
"LINCOLN" WAS DECIDED UPON



ABOVE: LINCOLN'S FINE NEW BRYANT'S  
RESTAURANT—"A SNACK OR A  
BANQUET" ANY TIME



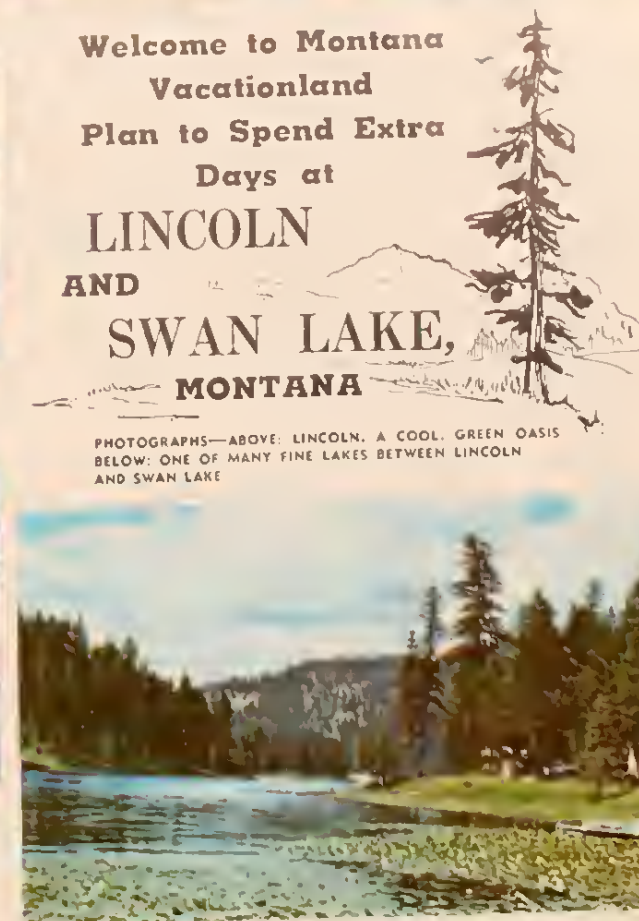
LEFT: LINCOLN HOTEL AND  
TRAILER COURT BIDS YOU  
WELCOME THE YEAR  
AROUND

RIGHT: McCLURE'S TEXACO  
SERVICE — TOURING INFOR-  
MATION—AT THE JUNCTION  
OF HIGHWAY 20 AND THE  
HELENA CUT-OFF



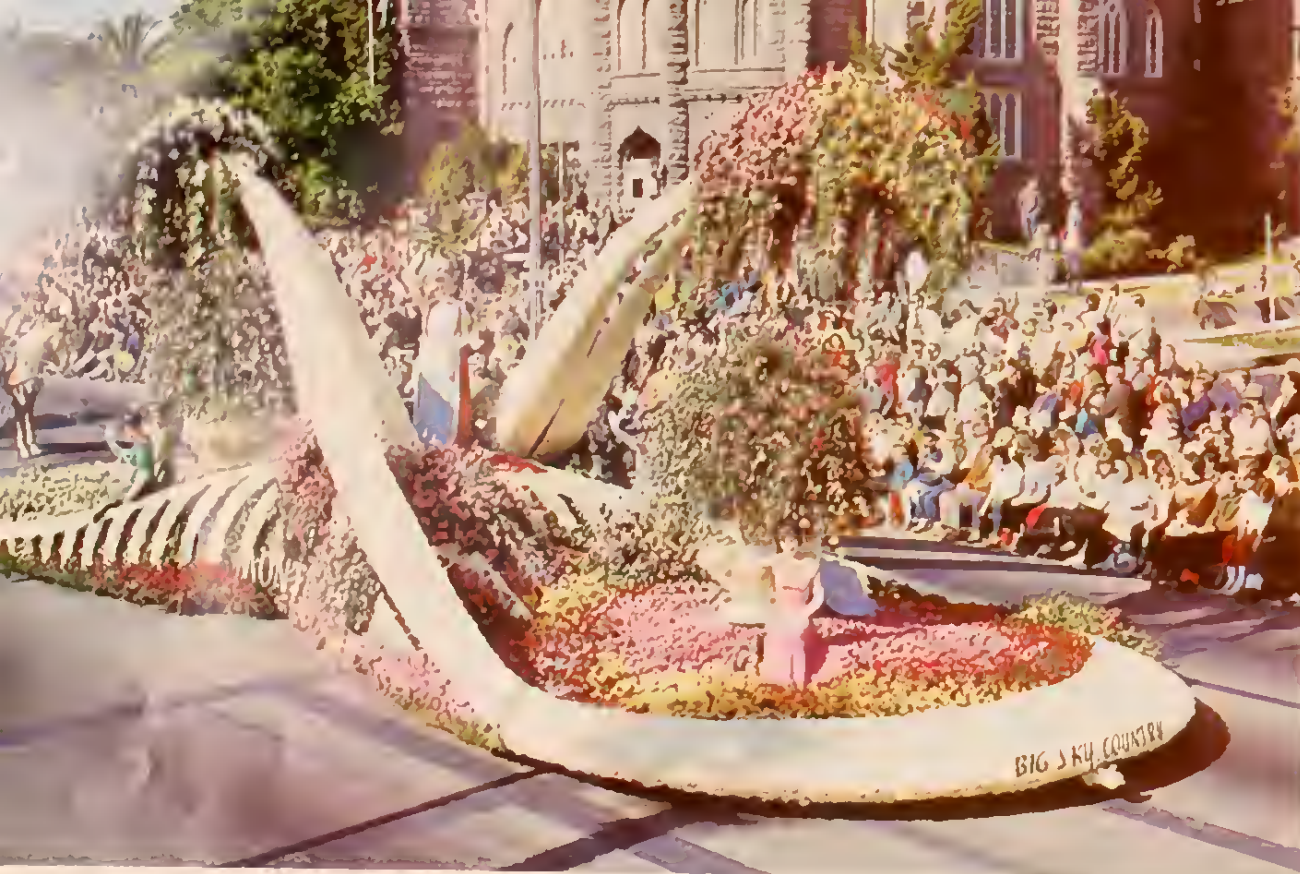
Welcome to Montana  
Vacationland  
Plan to Spend Extra  
Days at  
**LINCOLN  
AND  
SWAN LAKE,  
MONTANA**

PHOTOGRAPHS—ABOVE: LINCOLN, A COOL, GREEN OASIS  
BELOW: ONE OF MANY FINE LAKES BETWEEN LINCOLN  
AND SWAN LAKE



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RIGHT  
COME TO  
THE LAND  
OF NEVER  
ENDING  
ENCHANT-  
MENT

LEFT:  
MONTANA'S  
NEW YORK  
WORLD'S  
FAIR  
EXHIBIT  
WHICH  
DREW HUGE  
NUMBERS OF  
VISITORS  
IN 1964  
AND 1965

## THE Big Sky COUNTRY!

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VACATIONLAND UNLIMITED  
COAST TO COAST . . .

WITH THE  
CENTENNIAL TRAIN—NEW YORK  
WORLD'S FAIR — TWO YEAR EX-  
HIBIT 1964 - 1965

AND  
MONTANA'S SWEEPSTAKES WIN-  
NING FLOAT — TOURNAMENT OF  
ROSES PARADE AT PASADENA,  
CALIFORNIA, JANUARY 1, 1966

The Fourth Largest State with an area of 147,138  
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MONTANA'S GREAT OUT OF DOORS





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PHOTO LEFT: WAGNER RIG DRILL IN RUGGED MARIAS RIVER BREAKS—SHELBY PHOTO AT RIGHT, ON FLAT PLAINS NEAR CANADIAN BORDER 27 MILES NORTH OF CUT BANK NEAR RED CREEK

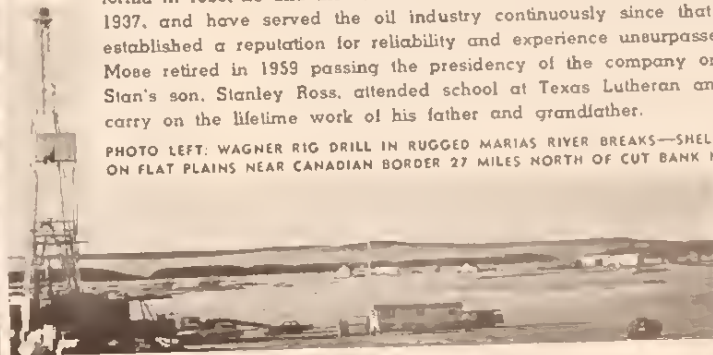


PHOTO LEFT: SHINING MOUNTAINS IN BACKGROUND. ANOTHER HOLE GOES DOWN ON PERRIN RANCH WEST OF CUT BANK. SOME HOLES ARE 9,500 FEET DEEP



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LAND IMPROVEMENT OR GENERAL EARTH CONTRACTING

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MELSTONE, MONTANA

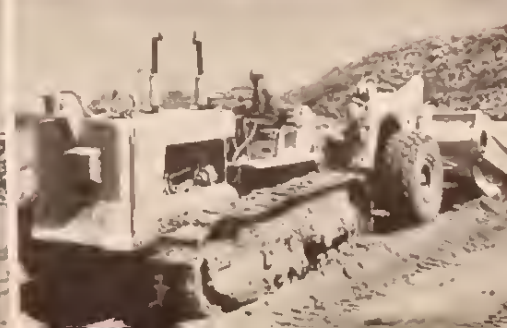
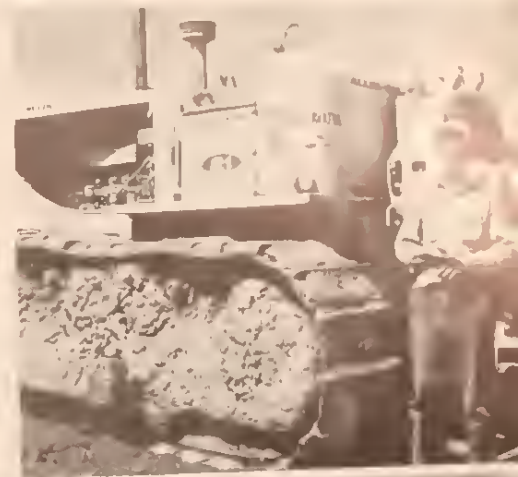
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MELSTONE





PROPOSED BIGHORN CANYON NATIONAL RECREATION AREA

The Bighorn Canyon is the passageway of the Bighorn River between the Pryor Mountains and the northern end of the Bighorn Mountains. Congressional delegations have introduced a bill which would establish a Bighorn Canyon National Recreation Area. For 47 river miles, Yellowtail Reservoir will lie within this canyon, where walls tower hundreds of feet above the river. The upland prairie and the beautiful Bighorn Canyon provide a natural setting that will be enjoyed by many people when the impounded river forms a safe waterway into what has been an inaccessible region. The use of the reservoir and surrounding lands would be diversified. Water-related activities would be the attraction with opportunities for boat trips and scheduled cruises. Fishing should be good, whether along the river below the dam, on the reservoir, or up the trout streams that will feed into the reservoir. Other activities will include camping, picnicking, hiking, riding, scenic drives, historical and archeological interest, the dam itself, bird and wildlife watching, hunting, and geological interest including nearby caves. The plan proposes a National Recreation Area that would include 60,287 acres.

WRITE TO US REGARDING AGRICULTURAL, RECREATIONAL AND INDUSTRIAL INVESTMENT OPPORTUNITIES

ABOVE: MONTANA'S NEW YELLOWTAIL DAM



## BIG HORN COUNTY STATE BANK

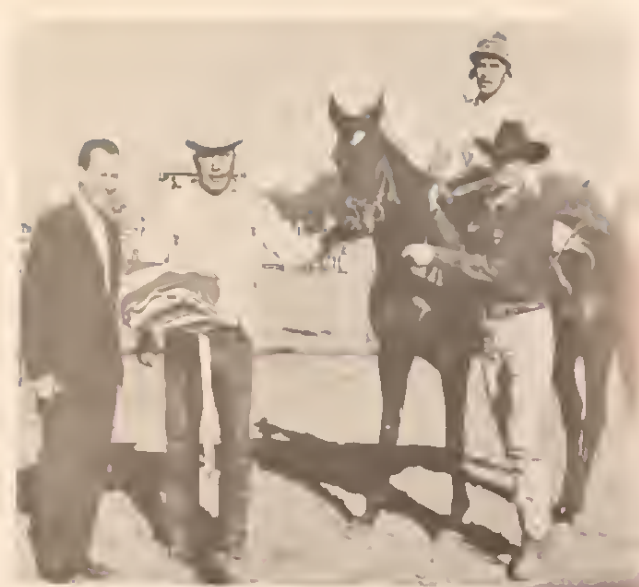
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Enjoy the Annual Re-enactment of Custer's Last Stand and Spend a Few Extra Days Investigating the Many, Many Opportunities for Investing in This Land of Opportunity — We Will Assist You in Every Way Possible

PHOTOGRAPHS AND TEXT ON THIS PAGE — COURTESY OF BIG HORN COUNTY STATE BANK



GOVERNOR TIM BABCOCK PRESENTS PRIZE TO WINNER AT ONE OF THE MANY EVENTS WHICH TAKE PLACE EVERY YEAR AT THE CROW RESERVATION

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NEW PLANT OR WAREHOUSE  
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AERIAL PHOTOGRAPHY  
COVERING ALL OF  
SOUTHEAST MONTANA

LEFT: BOLES  
FAMILY ARE  
ALL FLYING  
ENTHUSIASTS  
RIGHT  
AIRPORT  
ON EDGE OF  
DOWNTOWN  
HARDIN  
MONTANA



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PHOTOS SHOW PART OF OUR  
EQUIPMENT ON THE JOB IN  
EASTERN MONTANA



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Rotary Drilling in Montana



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*If it will pump. . .*

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JAMES R. CHARLTON  
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## THE GOAL — MAXIMUM PARTICIPATION IN NATIONAL LIFE . .

By Commissioner Philleo Nash

The American Indians are remarkable people. As Commissioner of Indian Affairs, I have witnessed their commitment to achieving maximum participation in national life.

Their aim is increased development of both human and natural Indian resources. My staff and I are privileged to assist them in striving toward that goal through the programs of our Bureau.

The Indians are determined to change the image of despair that persists in the minds of many people. Largely through Indian efforts—with federal assistance, counsel and encouragement—many reservations today hum with all kinds of constructive and beneficial activities.

Generally, there is emphasis on planning for economic development of Indian lands. All types of tribally and individually operated enterprises are becoming almost commonplace. Income from saw mills, manufacturing and processing plants, recreational development, farming and ranching operations contribute to tribal income. Some of the tribes have successfully encouraged industries to locate on or near their reservations, thus providing a supply of nearby jobs for their members.

Indian areas are often blessed with spectacular natural beauty. There are ample opportunities for camping and sports, while dances, ceremonies and celebrations are held throughout the year. These unique features of reservation life attract more visitors each year as the Indians improve recreational areas, construct new facilities and develop their growing tourism industry.

Natural resources of the reservations are under careful assessment, with Bureau technical assistance and advice. The Indians are measuring the extent of their mineral wealth, their forests, rangelands, and water sources. They are conducting projects to conserve those resources through improved forestry and farming methods, soil erosion control, weed and pest control, and through the development of irrigation systems.

President Johnson's battle against poverty goes on in Indian lands, as well as in other parts of the nation. Community service programs supply welfare services for the needy, and assistance with local law enforcement. The Bureau's Employment Assistance Program offers every service to those adults and their families who decide to move from their reservations and relocate in areas of greater employment opportunity.

Housing and home improvement projects are receiving important attention, bettering the conditions of daily life for many Indian people. Those who work in the field of Indian health see the results of their efforts reflected in rising population figures and lower incidence rates of diseases that once ravaged the tribes.

Indians, both young and old, have responded eagerly to the national emphasis on education. School enrollments are increasing and, in many States, the responsibility for educating Indian children has been assumed by the public school systems. More young Indians now go to college, many with scholarship assistance provided by their own tribes. Older people who missed schooling in their youth now seek adult education classes.

Vocational programs are turning out trained workers and craftsmen. As a result, more employers are learning to look for the ready comprehension, the high degree of manipulative skill, and the natural bent for mathematics and abstract reasoning that they have found in trained Indian employees.

The Indians have found that the tasks they have undertaken are not easy. There are still rough spots in the trail ahead. But the Indian record of struggle and achievement merits the praise and attention of all their fellow citizens. I am proud to serve them.



Commissioner Philleo Nash



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS  
WASHINGTON, D.C. 20240



James F. Canan, Area Director  
Bureau of Indian Affairs  
Billings Area Office

## Indians Invite Industry

Montana's Indian reservations provide a new area of opportunities for industrial, commercial and recreational enterprises. The Indians have become aware of the economic potentials of their reservations and are making efforts to develop their resources. This activity is creating an economic climate which should prove attractive to small industry.

Montana has long been known as "Indian Country." The Indian population, linked to the state's frontier past, has constituted one of Montana's most colorful attractions for tourists, historians and anthropologists. More recently it has been recognized that the Indian tribes and their reservations also represent an important resource in the modern era of commerce and industry.

The seven Indian reservations in Montana range in size from Rocky Boy's 107,532 acres to the Crow with 1,574,230 acres of Indian-owned land. The Indian tribes and individual Indians own approximately 5,171,000 acres in Montana. This area includes vast untapped forests, fertile irrigated and dry farm lands, grassy range lands and beautiful, natural areas ideal for recreational development. The many clear, sparkling trout streams and virgin timber lands make for outstanding opportunities on several of the reservations for development of major tourism enterprises.

Oil, coal, limestone and other minerals are abundant. In fact, one of the largest remaining coal deposits in the United States lies in the Northern Cheyenne Reservation area. There are large stands of Douglas-fir, ponderosa, lodgepole and other pine species on several of the reservations adjacent to national forests.

Industrialists facing the problem of space to build or grow, or a shortage of manpower, may well find on Montana's Indian reservations the answer to their needs. The Indian tribes themselves and the Bureau of Indian Affairs, which assists the tribes in the management of their affairs, are intensely aware of the importance of full economic development of Indian resources. This awareness is now being translated into action programs.

Many of the tribes are establishing their own industrial committees and organizations to compete for industry with all of the other communities. Even though the effort is quite new, they are having some success with this program. At the Crow Reservation a new building is under construction, financed by the tribe, to be occupied by the U. S. Automatics Corporation. Here they will employ Indians to produce electronic devices. Recently, a new building was dedicated on the Northern Cheyenne Reservation, also financed by the Tribe, into which the Guild Arts & Crafts, Inc., has moved. This will enable them to increase their production. They hire approximately 140 Indians assembling plastic novelties.

In order to minimize risk, many of the tribes have participated jointly with the Bureau of Indian Affairs, Area Redevelopment Administration, and other state and federal agencies in economic feasibility studies. Various tribes have invested over \$30,000 in tribal funds for these investigations. Included in these studies is one to determine the desirability of using tribal

funds to finance a plant expansion which will double plant output and increase Indian employment from 65 to 130. Other feasibility studies are under way to find additional uses for the timber resources, to determine if a ceramics factory would be profitable, and one recently completed to explore the economic potentials of commercial recreation.

Indicative of the tribes' interest in industrial development is the fact that various tribes in Montana have set aside over \$2,500,000 of their own funds for this purpose. To supplement these funds, financial assistance from banks and other private lending agencies, development corporations and community organizations may be available. Various federal agencies such as the Small Business Administration, Farmers Home Administration and the Bureau of Indian Affairs may sometimes help under established criteria.

Under certain conditions, the Bureau of Indian Affairs can make available on-the-job training programs. These training programs can be of great assistance to new industries. Training programs for employees may also be arranged through the Area Redevelopment Administration or under the Manpower Development Training Act.

Tribal contributions to sound industrial ventures may be made in a number of ways. As one example, a tribe might finance the construction of a factory building to be used by the industry on a lease or lease-option to purchase basis. Such an arrangement is usually advantageous to the company because Indian-owned property on trust land is not subject to taxation.

Most tribes will make sites for industrial purposes available at little or no cost, in order to create employment opportunities for tribal members.

Some manufacturers may not have considered Indian reservations as possible plant locations in the belief that all reservations are isolated and remote from transportation and other facilities. A glance at the map of Montana will show that this belief is in error. Mainline railroads serve five reservations in this Area — Crow, Fort Peck, Fort Belknap, Rocky Boy's and Blackfeet. The Flathead Reservation is served by a branch line of the Northern Pacific. A branch line also extends to within 22 miles of Lame Deer on the Northern Cheyenne Reservation. Paved highways pass near or through all the reservations and interstate trucking services are available. Most of the reservations are within reasonable distances to commercial air service.

Nearly all reservations have ample water supplies. All have electric power and some are served by natural gas. Natural and human resources, land, power, transportation, favorable taxes, and financial assistance are all here — set in an area of unparalleled beauty where relaxed living is available at relatively low cost.



Here are facts about the individual reservations showing the location of tribal headquarters, population, acreage and major resources.

**BLACKFEET** Browning, in northwestern Montana. Tribal membership approximately 12,000. Land holdings 941,223 acres. Has producing oil fields and extensive pine forests

**CROW** Crow Agency, near Hardin in south-central Montana. Tribal membership approximately 4,688. Land holdings 1,574,230 acres. Oil and gas leasing activities, irrigated and dry farming, some timber, cattle and outstanding recreational development possibilities in proposed Big Horn Canyon National Recreation Area

**FLATHEAD** Dixon, in northwestern Montana, near the famed Flathead Lake. Tribal membership approximately 5,248. Land holdings 622,615 acres. Farming, ranching, commercial timber stands and sawmills are the basis of their economy. One resource that has great potential is the reservation's scenic location. Its mountains, forests and lakes — Flathead is the largest fresh water lake west of the Mississippi — attracts thousands of visitors each year.

**FORT BELKNAP** Fort Belknap Agency, near Harlem in north-central Montana. Tribal membership approximately 3,557. Land holdings 597,112 acres. Farming and ranching are the principal sources of income. Large coal and limestone deposits are undeveloped.

**FORT PECK** Poplar, in northeastern Montana. Tribal membership approximately 6,728. Land holdings 897,888 acres. Producing oil wells, farming and cattle provide the economic base.

**NORTHERN CHEYENNE** Lame Deer, in south-central Montana. Tribal membership approximately 2,906. Land holdings 433,277 acres. Some farming and ranching, vast undeveloped coal deposits, oil potential and commercial timber stands form their resources.

**ROCKY BOY'S** Box Elder, south of Havre in north-central Montana. Tribal membership approximately 1,486. Land holdings 107,532 acres. Ranching is their chief source of income. The reservation's most significant economic potential may well be in commercial recreational development.

Strangers to Indian country today often are surprised when they learn that Indians live in houses instead of teepees, that Indian children go to school, that Indians work for their livelihood, that Indians do not wear buckskins and headdresses as everyday garb, and that in many respects the everyday life of Indians is much the same as that of their white neighbors. Yet some differences do exist in varying degrees.

Indian reservations differ, one from the other, just as counties within a state, or states within a nation, differ from others. Indian tribes differ from each other in language — Although English is generally spoken —, in physical characteristics and cultural heritage just as Scandinavians differ from the Irish, or the Germans from the French. One way that an Indian citizen, who is an enrolled member of his tribe, differs from other citizens is his special relationship with the Federal Government. This relationship is often misunderstood.

All native-born Indians are full-fledged citizens of the United States. They have the same rights and privileges as all other citizens insofar as the laws of the United States and individual states are concerned. They can vote on local, state and national issues, hold public office, bring law suits, make contracts, acquire property, and they pay taxes just as other citizens, except that trust lands allocated under treaty or other Federal arrangements are not subject to tax.

Conferring of citizenship on the Indian in 1924 did not take from the tribes certain privileges of self-government which they retained. The Federal Government is the trustee for Indian-owned lands, but is not the guardian of the Indian person. All Indians are privileged to go to or from reservations at will or to move away permanently if they wish.

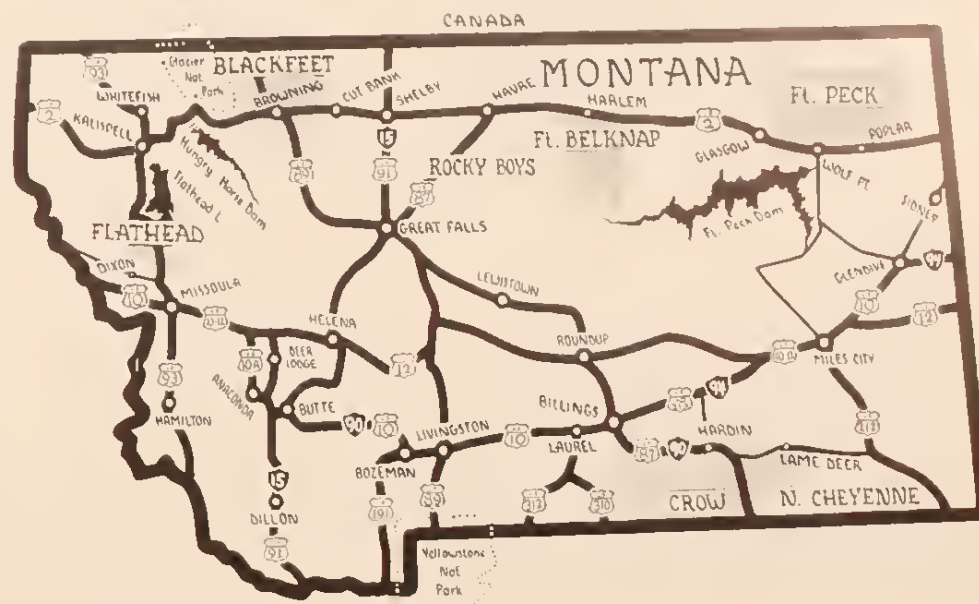
Another fallacy regarding the Indian is that he is a disappearing race. In Montana the Indian population in 1940 was approximately 16,800. By 1965 the Indian population has shown a natural increase to 36,600, an 11 percent increase in 25 years. One tribe has six times as many people as in 1885. Actually the Indians have outgrown their reservation resources and it is this fact that is stimulating their efforts toward diversifying their economy by promoting industrial development.

Industrialists interested in expanding their facilities or new businesses looking for a place to start will find on the Indian reservations a warm and friendly reception and perhaps the assistance they need. The staff of the Bureau of Indian Affairs includes personnel with experience in economics and business who are ready to assist any interested industrialist in obtaining any information he may require. Information and assistance are available at the Billings Area Office of the Bureau of Indian Affairs, 316 North 26th Street, Billings, Montana. The individual tribal organizations and the Agencies will also supply information relative to their individual jurisdictions.

## WESTWARD HO! TO THE LAND OF ADVENTURE

Visit All of Montana's  
Seven Indian  
Reservations  
With Their Colorful  
and Historic  
Backgrounds

Keep in Mind the  
Opportunities For  
Capital Investment  
In These Reservation  
Areas . . .





MRS. MUELLER AT INDIAN CRAFTS DISPLAY AT MONTANA MANUFACTURERS SHOW

## NEW HORIZONS IN INDIAN ARTS & CRAFTS

By Mrs. Mahala E. Mueller

Director, Arts and Crafts Branch  
Bureau of Indian Affairs  
Billings, Montana

The Indian made history in defending the territory of Montana and now he is again making history as a craftsman and merchant with generations of hand-crafted culture to sell. The problem today is that he is competing with pseudo Indian "curios" much inferior to his own. These imitation products give deceptive vision to his own skill as a true craftsman, although he has little conflict in his mind that culture cannot be directed, through an organized economic offensive, toward the current market. Now, through the utilization of modern methods today's output in authentically-crafted material has been increased and organized into a working activity designed to give supplemental income to the Indian on a more substantial basis, and in a broader sense to perpetuate the Indian's heritage as an artist and craftsman.

There has always been dramatic beauty and appeal in Indian country. Behind this surface appeal the Indian contributes substantially to the social and economic well-being of his community. The planning, toil and capital investment in Indian country serve a common purpose in contributing greatly to balancing our state and Indian communities' economy. The earliest white settler was quick to adopt the Indian's way of life and one fact frequently overlooked is that he not only contributed to our culture and lasting designs significantly used in many forms of decoration, he also contributed much more than he has been given credit for in agriculture, native foods, housing and household equipment, and wearing apparel.

To present a capsule picture of past and present programs designed to assist and encourage the Indian craftsman, before organized activity and crafts guilds came into being there was little or no direction in either quality or quantity in crafts production. Since the Indian craftsman dealt mainly with the traders on the reservation his vision of potential was limited to this and the boundaries of his reservation. The trader, because he was selling to

few tourists then who usually wanted only low-priced souvenirs, did not pay a high price nor did he necessarily encourage better crafts workmanship. When the crafts development became better organized through the establishment of the Indian Arts and Crafts Board in Washington, D. C., and the various crafts associations to stem the tide toward inferior and low-priced work plans of action for promoting a growing and balanced economy in arts and crafts soon developed. To better stabilize this economy, the organized crafts guilds assumed responsibility for professional direction and for refining the combination of traditional and contemporary in modern Indian craftsmanship. Tribal designs can effectively blend with modern styling and easily adapt to some useful indigenous art form.

Community-action arts and crafts projects on the reservation level constantly make new discoveries for expanding opportunities in the arts and crafts field. Through recent comprehensive studies there will be the added impetus and benefit of the latest technological advances. This will mobilize and develop resources in a way to provide the most feasible participation by the reservation resident. The Indian craftsman will have increased technical assistance through State and Federal training courses in essential processing, purchasing and marketing services, supplies and facilities for group work activities. One significant accomplishment resulting from the Indian banding together with his fellow craftsman for better organized crafts activity has been the discovery and searching out what is good in Western Indian art for growth potential. Development is no longer dependent on a visionary unexplored market.

The craftsmen of the tribes of Montana have long had the services and direction of an arts and crafts central office and affiliated business-management association. The Northern Plains Indian Crafts Association with offices in Billings with a branch at the Browning Museum, is engaged in the business and problems of production and marketing the products of the Indian craftsmen of the States of Montana and Wyoming. It was established in 1941, as one of several crafts guilds throughout the country under the sponsorship of the Department of Interior and the able guidance of the Indian Arts and Crafts Board in Washington, D. C. The Northern Plains Indian Crafts Association was activated under authority of its own Constitution and By-laws and is composed, on an apportionment representation basis, of associate members from the various tribes of Montana and Wyoming. The active members in Montana are the Blackfeet, Chippewa-Cree, Assiniboine, Gros Ventre, and the Shoshone and Arapaho of Wyoming. Affiliate members realizing the overall benefits in Montana are the Sioux, Crow, Northern Cheyenne, and the Flathead area people.

The Northern Plains Indian Crafts Association is one of several larger co-operative enterprises yet undertaken to aid Indian groups in the revival and continuance of their native skill, and exemplifies the use of this inherent talent in creating for a modern civilization. In Montana there are over a hundred active craftsmen and tanners benefiting from programs initiated by professional direction and training. The combined income to Montana member groups associated with Northern Plains Indian Crafts Association during the past twelve year period is between \$275,000 and \$300,000. The income to independent workers not members of the Association but using its marketing center exceeded \$20,000. This does not include the income on the reservation level and where independent shops are established, nor does it include the amount of Montana-produced crafts sold out of the State. Raw materials income in Montana for the same period, principally buckskin and feathers, amounted to over \$25,000. These figures are based on hand-production as a supplemental or major source of income.

Guild Arts and Crafts, Inc., a New York firm having a factory on the Northern Cheyenne Reservation, is an assembly facility in plastic items. This plant is primarily designed to provide further steady employment and to add to the labor force living on the reservation. Not to be confused with Guild Arts and Crafts, Inc., there is a Northern Cheyenne Arts and Crafts Association and a tourist center on the reservation for the sale of authentic Indian crafts produced by the Northern Cheyenne craftsmen. This Association also furnishes beaded material for resale on a contractual basis to the St. Labre Indian Mission at Ashland. Several of the arts and crafts associated groups, including Northern Cheyenne, operate retail outlets and do considerable individual selling on the reservation level.

Frequently price patterns in any type of hand-production mask what might be determined as a fair average of return to the craftsworker. To expand opportunity for better wage earnings, especially among the younger people, research data and performance reviews have resulted in objectively facilitating the processing of raw materials and crafts. The tanning of hides is gradually falling into more accelerated refining, and simpler more direct methods are being devised for crafts production. So that the less expensive items, formerly hand-produced, are not priced out of the present highly competitive market, we are reaching into new and profitable fields through the introduction of mechanics to a more diversified industry in such material. Ceramics, wood-working, metal products, toys, and articles for home decoration fall into this

category. By streamlining production earning power will be fortified. There are other crafts trends yet to be explored in this favorable atmosphere of the Old West.

A visit to any of the Montana reservations, the Browning Indian Museum, the State Capital museum, or the arts and crafts center in Billings, where Indian collections are displayed, will give a better understanding of the great variety in native talent. The trend today is to concentrate on re-evaluating in arts and crafts for better presentation in keeping pace. Valid interest has given importance to activating and preserving of what, in some instances, had become almost a lost art. Recreation, a present way of life and a major industry, leaves little doubt of its increasing importance. Because of its vast potential in the State of Montana there is need to determine the significance of Indian native crafts as a related activity in the development of recreational areas. Crafts enterprises, large and small, give basic strength to the region's industrial possibilities. Major improvements with a relatively high level of operation, highlight Indian arts and crafts as one of Montana's more unique industries. Through a unification of effort crafts are being produced with a high market value and yet remaining within the underlying prestige of respect and dignity of heritage.

The Indian Arts and Crafts Board, Washington, D. C., serves all Indians and the general public as an advisory and informational bureau for all matters pertaining to the development of genuine Indian arts and crafts. Through its varied activities it is the springboard for cultural and artistic achievements of Indian artists and craftsmen. The Board in its promotional capacity, along with the field arts and crafts associations, stimulates and broadens production and markets to provide ever-increasing income, and to protect through certification genuine reservation-made crafts material. There is an Act of Congress protecting producers and consumers of Indian arts and crafts to prohibit violations in misrepresentation and the labels attached to all genuine Indian products certify their authenticity.

Events such as the New Mexico Inter-Tribal Indian Ceremonial, the largest in Indian participation, reveal significant changes taking place in Indian art. The implied direction is toward the fundamentals in drawing, color and design combined with a validity of purpose in experimentation. This approach is also being taken by the Institute of American Indian Art in Santa Fe in teaching modern processes. It is the culture that is the basis for validity. At the Inter-Tribal Ceremonial the national status of Indian arts and crafts is revealed by the geographical range representative of their work. Here historical expression is still much in evidence in adapting the inherited culture to a broader economic level.

Bringing the over-all Indian arts and crafts program into tangible focus has been a complex drawn-out process in successfully diverting an often latent skill in human resources to a needed present-day commodity. Where do we go from here? Continuous research and experimentation is essential to putting any product in a competitive position for the future. Indian products are no different in this respect. The key people who direct this commodity into profitable channels are the Indian crafts instructors and reservation leaders, and the crafts association directors who might be either Indian or white. These people must be experts in production, buying and selling and they must also be authorities on the application and selling of culture to present-day markets. In Montana the wealth of raw materials and skilled craftsmen plus the fact that the native environment adds to the dramatic appeal has resulted in the achievement of a deliberate balance between supply and demand. The most pivotal point of balance is naturally the skill of the Indian himself and this has been most graphically illustrated throughout many generations of craftsmen. The end result will be total elimination of material unacceptable for market, and the establishment of firm policies promoting economic growth. The adaptations will remain translations of early Indian originals in increased reproductions development. Indian Art has a natural affinity with the mood of trends. Although tribal cultures may be totally unrelated in the various regions, this variance is responsible for developing outstanding primitive Indian art styles for which their own particular corner of the world becomes famous. A true Indian design is timeless and always in good taste in its simplicity of line and form. In this classic beauty is found the one essential ingredient that distinguishes and gives value to American Indian art. In the past superficial compromises have been of slight value in the field of economic growth.

It is the consensus that Montana is integrated with the Indian to the extent that education and business serves the needs of Indians equally as much as non-Indians. The Indian participates as well as observes. Programs often need to be enlarged to strengthen the over-all activity in economic long-term planning. The Indian accepts increasing responsibility for success in business and many of the new developments are self-propelled and self-directed. He is rapidly gaining the "know-how" in top-drawer business management. Because of these broader horizons, he is regaining his pride and economic stability.



## 60,000 INDIANS WELCOME TOURISM AND INDUSTRY TO THE BIG SKY COUNTRY

Montana has seven Indian reservations within its borders and there are ten Indian tribes residing on these reservations. The number of Indian people in Montana has been estimated at approximately 60,000 individuals. Approximately 30,000 reside on the reservation and the other 30,000 live off the reservation in various communities of the state where they have employment. The Indian people who reside on the reservation live under the tribal rules and regulations and do not live under the jurisdiction of Montana state law.

The Indian people who live on the reservations have retained more of the old culture than the integrated Indians who live off the reservation. The change in culture is very often misinterpreted and misunderstood. No effort is being made to urge the Indian to change his cultural habits. These changes come as a result of the changes in the wants of the Indian himself. Originally Indian people traveled using dogs with travois to carry their equipment. With the coming of the horse, this animal became the beast of burden using the travois to carry their belongings and possessions. The travois is no longer culturally the mode of travel. The Indian people today travel by automobile and motor vehicles. This is a cultural change because they want this mode of travel. The youngsters are very skilled in horsemanship and the cultural heritage makes them excellent performers at rodeos. Indian reservation festivals are still held on Indian reservations each summer and at these functions many beautiful costumes and skillful dances are seen. The cultural habits that have been retained the longest and strongest are the old Indian festivals and dances. The Indians enjoy performing these dances and the public enjoys watching them.

The economy of Indian reservations is changing gradually with several new industries locating on the reservations and employing many Indians which provides payrolls and a better standard of living. Several reservations have lumber mills which develop timber products from Indian resources available on the reservation. Lumber from Indian reservation forests is sent all over the United States. Development of this resource is eagerly sought and welcomed by the people. Indians are anxious to have a better way of

life, better homes, and retain some of their cultural heritage which makes them proud to be an Indian. The Indian people finance some of their economic development through the use of their own tribal funds and borrowing power. The future of Montana Indian people looks much brighter through the use of a broader economy and the educational opportunities available to Indian youth through university training in the professions and skilled trades of industry. Over one thousand young Montana Indians are now taking advantage of university, college and technical training through scholarships and Indian trade schools each year.

An area which is commanding a great deal of interest and attention throughout the entire United States is the recreation industry which is available on Indian reservations and among Indian people. These include the many festivals, rodeos, camping, boating, fishing, hunting, swimming, hiking, saddle horse riding and other outdoor activities which young people all over crave. These activities abound on Indian reservations and the future of tourism and recreation is very promising on Indian reservations. The Indian people are doing well in the promotion of this industry.

One of the biggest problems among Indian people is the source of capital for economic development. Indian people are making a splendid effort to obtain sources of credit for economic development and building new industry. They will help new industry which is moving to a reservation by the construction and location of the industry as well as providing water, light and sewers. This type of cooperation helps solve many of the problems which confront the location of new industry. Indian people are putting a great deal of effort towards the solution of these problems.

Another advantage to industry locating on Indian reservations is the taxation exemption privileges. The principal advantages to industry locating on Indian reservations are a good supply of labor, certain taxation exemptions and help in the construction of buildings.

The last two years have shown a definite improvement on Indian reservations in health, economic interest, housing. It is hoped that the same improvement can be shown in education and reservation morale.

STATE OF



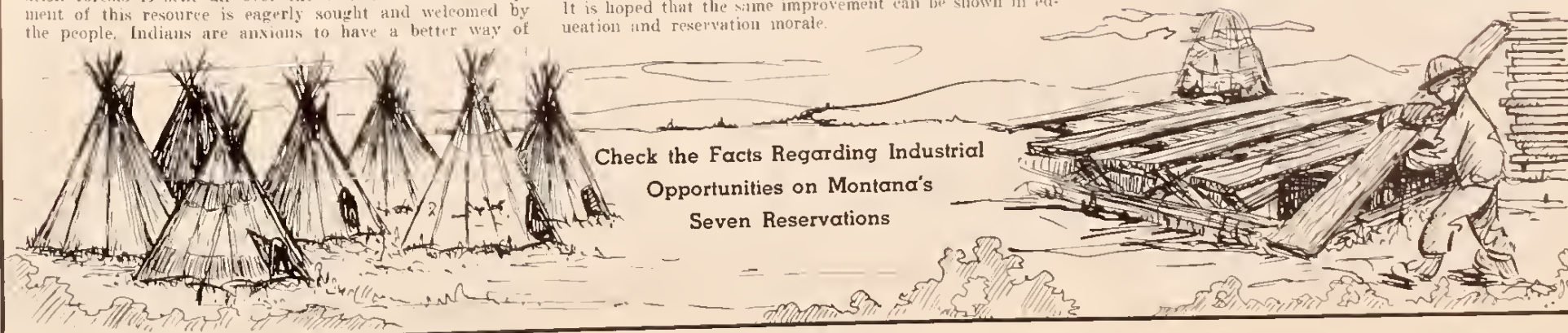
MONTANA

DEPARTMENT OF INDIAN AFFAIRS  
HELENA, MONTANA 59601



A. W. BERGAN, COORDINATOR

Check the Facts Regarding Industrial  
Opportunities on Montana's  
Seven Reservations





OVER 2,500 RESIDENT CHEYENNE INDIANS

WELCOME YOU TO THEIR RESERVATION

MORNING STAR



## DON'T MISS . . .

SUN DANCES  
HORSE SHOWS  
RODEOS  
DEER & ANTELOPE  
HUNTING  
PICNICKING, SWIM-  
MING & FISHING  
AT CRAZY HEAD  
SPRINGS  
PICNIC TABLES  
ARTS & CRAFTS SHOP  
AND OVERNIGHT  
CAMPING FACILI-  
TIES AT THE  
CHEYENNE  
TOURIST CENTER  
IN LAME DEER  
ICE CAVES ICE  
THE YEAR AROUND  
HISTORIC SITES AND  
BATTLEFIELDS IN-  
CLUDING THE  
WORLD FAMOUS  
CUSTER BATTLE-  
FIELD & MUSEUM.



CHEYENNE, TWO MOONS

## INDUSTRIAL INQUIRIES INVITED

Ponderosa Pine Timber  
6 million board feet per year  
for 10 years then 4 million  
feet annually on a sustained  
yield basis  
Excellent Grazing Land Avail-  
able — The Tribe is now  
building a 5,000 head herd

Acres and average pro-  
duction now is: Wheat, 750  
acres, 18 bu. per acre, Bar-  
ley, 250 acres, 20 bu. per  
acre, Oats, 40 acres, 30 bu.  
per acre, Hay, 4,300 acres,  
1 ton per acre

There is approximately 3,400  
acres of irrigable land along  
the Tongue River for a pos-  
sible farming enterprise.  
Suitable for vegetable and  
other specialty crops.

Large coal deposits with 1  
operating strip mine. See  
next page.

Two major companies hold  
oil leases on land for pos-  
sible discovery and produc-  
tion.



CHEYENNE, RICHARD WOODENLEGS

Write to the Northern Cheyennes or Better Yet Spend a Few Days with Us

A total of nearly 14,000 head of cattle are  
grazed on reservation land. An adequate sup-  
ply of feeder and butcher calves could sustain  
a large feeding or butchering operation.

Large numbers of deer and elk hides could  
supply a small tanning and leather goods  
industry.

Industrial sites are available with electricity  
and highway transportation. The tribe would  
be ready to cooperate with an interested in-  
dustrialist in developing a site to meet his  
specifications. The tribe is also willing to make  
an investment in plant facilities and machin-  
ery for a practical industry to be located on  
the reservation and make use of the Cheyenne  
labor force.

MANY FINE CATTLE SPREADS DOT THE RESERVATION

VISIT THE CHEYENNE RESERVATION WHERE WESTERN HIS-  
TORY WAS MADE — YOU AND YOUR CHILDREN WILL  
NEVER FORGET A FRIENDLY CHEYENNE VACATION



LEFT: NORTHERN  
CHEYENNE  
TRIBAL OFFICE

JOHN  
WOODENLEGS  
PRESIDENT OF  
THE NORTHERN  
CHEYENNES  
IN FRONT  
OF BUILDING

AREA AND TRAVEL INFORMATION GLADLY GIVEN AT OUR TRIBAL OFFICE OR  
OUR TOURIST CENTER AND GIFT SHOP — IN THE CENTER OF LAME DEER

## THE NORTHERN CHEYENNE INDIANS

Welcome You To Their Half  
Million Historic Acres In  
Rosebud and Big Horn Counties  
Tribol Office and Tourist Center  
LAME DEER, MONTANA

LITTLE  
WOLF  
AND  
DULL  
KNIFE.  
FAMOUS  
CHEYENNE  
WARRIORS  
OF  
MANY  
YEARS  
AGO



THE  
CHEYENNES  
WHO LED  
THEIR  
PEOPLE  
BACK TO  
MONTANA  
AND  
THEIR  
PRESENT  
RESER-  
VATION

MORNING



STAR

MORNING



STAR







THE CHEYENNES ARE VITALLY INTERESTED IN INDUSTRIAL PROGRESS  
For Facts on Industrial & Commercial Sites Phone Lame Deer 969-2361, Diamond Ex.  
**BUILDING AND WORKING TOGETHER FOR A BETTER CHEYENNE FUTURE**

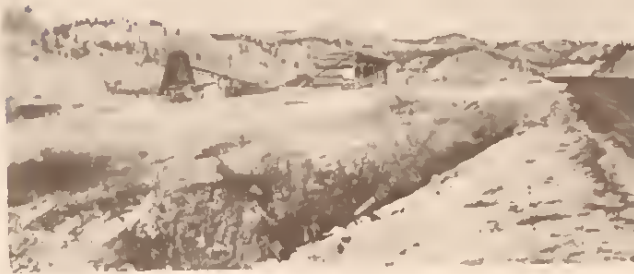


**COAL  
STRIP  
MINING**  
on the  
Northern  
Cheyenne  
Reservation  
Furnishes  
Cool to  
Schools,  
Homes and  
Indian  
Agencies in  
Southeastern  
Montana

WORKING WITH THE NORTHERN  
CHEYENNES FOR A BETTER ECONOMY

## LAME DEER MINING CO.

Wayne L. Hayden  
LAME DEER, MONTANA



ABOVE: 40 ACRES OF CHOICE INDUSTRIAL SITES ALONG MAIN EAST  
WEST HIGHWAY NEAR CENTER OF LAME DEER, MONTANA

**ANNE  
T.  
HANKS**  
Lame  
Deer,  
Montana  
Working  
With the  
Northern  
Cheyenne  
For  
Industrial  
Progress



BELOW: THE VERY OLD LADY WAS A TODDLER IN THE CHEYENNE CAMP  
ON THE LITTLE BIG HORN WHEN HER FATHER FOUGHT GENERAL  
CUSTER. THE LITTLE WARRIOR LIVES IN LAME DEER TODAY— HE IS  
HER GREAT, GREAT GRANDSON



RIGHT:  
CLOSE UP  
EXTERIOR  
& INTERIOR  
VIEWS OF  
CHEYENNE  
TOURIST  
CENTER AND  
AUTHENTIC  
INDIAN  
ARTS AND  
CRAFTS  
GIFT SHOP



A CAMPING  
AND PICNIC  
AREA LIES  
IMMEDI-  
ATELY  
ADJACENT  
TO THIS  
BUILDING &  
ANNE T.  
HANKS IN-  
DUSTRIAL  
ACREAGE  
JUST EAST



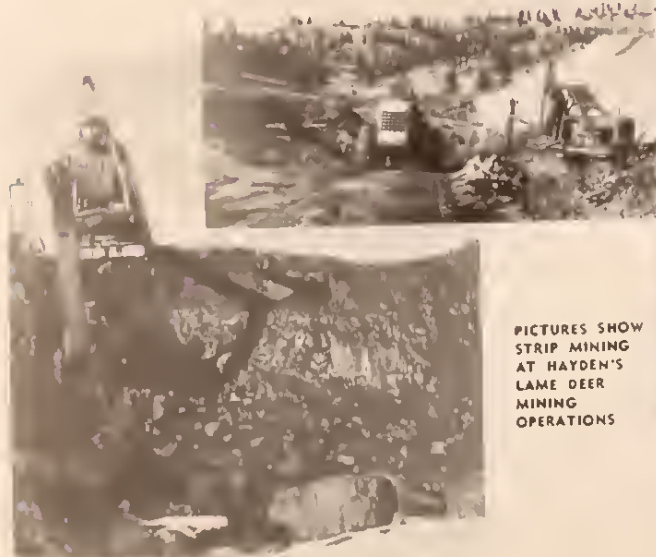
LEFT CENTER:  
AIR SHOT  
OF MAIN  
HIGHWAY  
CENTER OF  
LAME DEER



TIMBER...  
SEE OTHER  
PAGE FOR  
FOREST  
PRODUCTS  
POTENTIAL  
FIGURES



RIGHT:  
LAME DEER  
MINING  
PRODUCTION  
HELPS LOCAL  
ECONOMY



PICTURES SHOW  
STRIP MINING  
AT HAYDEN'S  
LAME DEER  
MINING  
OPERATIONS

This Page of Pictures and Text Courtesy of Anne T. Hanks and Wayne L. Hayden  
Anne T. Hanks Industrial and Commercial Sites Have 1,000 Feet of Highway Front-  
age. Water and Electricity Available. Direct Route, Black Hills to Custer Battlefield



AIR VIEW OF ASHLAND—ST. LABRE MISSION AT TOP OF PICTURE



LARGE HERDS OF ELK, DEER, ANTELOPE AND OTHER WILD GAME ROAM THE MOUNTAINS AND FOOTHILLS IN MONTANA, PROVIDING AN UNEXCELLED VARIETY OF FALL AND WINTER RECREATION FOR NIMRODS AND OTHER OUTDOORSMEN. PICK UP HUNTING INFORMATION AND SUPPLIES AT JOE'S TRADING POST



**JOE'S TRADING POST -- Ashland, Montana**  
— CENTER OF TOWN —

— CENTER OF TOWN —

Hot Bar-B-Q Foods to Go

Fresh Meats and Cold Cuts

Groceries — Dry Goods — Drugs — Guns

Ammunition — Film — Cold Pop — Ice Cream

Post Cards — Souvenirs — Ice

Camper's Supplies

TOURIST INFORMATION GLADLY!



## **WELCOME TO SCENIC ASHLAND, MONTANA**

JUST A SMALL WESTERN TOWN WITH  
GOOD MOTELS AND CAFES . . .

A TOURIST MUST WHEN STOPPING IN ASHLAND,  
MONTANA—VISIT JOE'S TRADING POST AND SEE  
THIS DISPLAY HIGHLIGHTING THE OLD WEST  
STAGECOACHES AND ALL

THE NORTHERN CHEYENNE INDIANS HAVE A  
HUGE CATTLE OPERATION NEAR ASHLAND —  
RAISING THOUSANDS OF HEAD OF  
FINE COMMERCIAL HEREFORDS

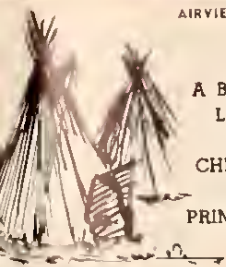
**VISIT  
HISTORIC ST. LABRE  
MISSION AND ITS  
BEAUTIFUL GROUNDS**

Photographs & Text on this page Courtesy of Joe's Trading Post





AIRVIEW OF ST. LABRE NESTLED IN THE TONGUE RIVER VALLEY



A BETTER WAY OF  
LIFE FOR THE  
NORTHERN  
CHEYENNE PEOPLE  
IS OUR  
PRIMARY OBJECTIVE

*St. Labre  
Indian Mission*

AND INDIAN SCHOOL  
ASHLAND, MONTANA 59003

HERE CLEANLINESS BECOMES A HABIT

WE STAND IN LINE THREE TIMES EACH DAY

PART OF THE 100 LOAVES OF BREAD BAKED DAILY



A RECEPTIONIST WELCOMES YOU  
ON THE PHONE OR AT THE DOOR



A HOME TO PLAY IN  
BEFORE GOING TO BED



COMPLETE  
ELEMENTARY  
EDUCATION

A FULLY ACCREDITED  
HIGH SCHOOL

TRADE SCHOOL  
COURSE

Constant Vigilance  
Over the Well Being  
and Health of the  
Youngsters is Main-  
tained by the Staff  
and the School's  
Modern Clinic

VISIT US THE  
NEXT TIME  
YOU TRAVEL  
THE AREA..



TEN LITTLE INDIANS LEARN TO READ



OVER 900 MEALS SERVED DAILY





WINTER RECESS TIME AT ST. LABRE



MRS. WOLFBLACK'S KINDERGARTEN CLASS



A TIME TO PLAY



SINGING IS FUN FOR ALL



MUSIC OFFERS CULT TO THE INDIAN POETS



WINTER PLEASURE AT ST. LABRE

St. Labre Indian School, located within the boundaries of the Northern Cheyenne Reservation, dates back to the year 1884—8 years after Custer's Last Stand. St. Labre was founded before the reservation itself was formed. The Northern Cheyenne Indians were wandering aimlessly in scattered groups in southeastern Montana. A soldier at Fort Keogh, now Miles City, recognized their plight. In response to his request, missionaries were sent to work among this impoverished tribe.

The school offers a complete elementary education, kindergarten through the 8th grade. A fully accredited high and commercial school was started in 1947. The trade school offers courses in welding, woodworking and automobiles. This was begun in 1954. Today, more than 375 children attend St. Labre School.

The majority of the children live at the school from Monday to Friday. They spend weekends and summer months with their families. They remain at the school on weekends when weather will not permit them to return to their homes.

Since the school's facilities cannot accommodate all the children as boarders, the school maintains daily bus service to the various Indian towns. This is a tremendous task, particularly since the roads are quite hazardous.

The school watches over the health of the children. Constant vigilance and examinations are required particularly when the children return to school in the fall. On the average, 90 patients are treated each day at the school's clinic.

The school is supported entirely through the generosity of friends. We do not participate in any type of united appeal. This appeal is based upon the idea that the community unites to support its charities. The people who would give to such an appeal, are the very same ones who need the support.

We do not employ any solicitors or so-called "professional fund raisers." There have been, and are, abuses in solicitation by mail. Assurance about the worthiness of our cause may be obtained from one of the following: The Ashland Jaycees, Ashland, Montana; Hardin Chamber of Commerce, Hardin, Montana; The United Neighbors, Billings, Montana, or Montana Division of Child Welfare, Helena, Montana.

The school is always grateful for gifts of new or used clothing, toys, games, books, etc. We appreciate the time, effort and expense of preparing and shipping packages. Since we are 75 miles from the nearest railroad or truck terminal, may we suggest that you send packages by parcel post, if at all possible.

Many individuals and groups are interested in helping to support a particular child. We do our best not to show partiality and to give to all equally. It costs \$2.35 per

day to feed, clothe and educate each child. It is impossible to accept penpals. The children need their time for studies and we feel that our friends will understand.

St. Labre is not an orphanage, but some children do make their home here from time to time. These are semi-orphans and neglected children. Adoptions are difficult to obtain and are rare among the Cheyennes. The only way adoption or foster care can be arranged is by consent of the families. This is rare since the Indian people do love their children and want to keep them if at all possible.

While St. Labre is a school in the full meaning of the word, it is also a center of extensive social work, of many daily acts of mercy to alleviate human suffering which respects neither age, creed nor color. The very young, very old and those in between, look upon St. Labre as a refuge in their need. They come by day and by night, whenever and however they need assistance. We do our utmost to help.

Nearly 3,000 Northern Cheyennes live on this reservation. The majority of the people live in small camps and settlements at Ashland, Birney, Busby, Lame Deer and Muddy Creek. The reservation is about 40 miles long and 20 to 25 miles wide. It consists of 444,000 acres of semi-arid land, so poor it takes 20 acres to support one beef cow. Only 2,660 acres of this land can be irrigated.

The Indian is not shiftless and lazy. He wants to work, and given the opportunity, he can become a skilled worker. Regular employment has never been available to the Northern Cheyennes. Occasional seasonal work on roads, ranches and fighting forest fires, for years, has been their only source of employment.

St. Labre pioneered industry on the reservation. In 1955 we started a small assembly plant making Indian novelties. They were sent to people as gifts hoping the interest aroused would result in contributions. Through this project, new hope came. Being self-supporting has eliminated much of the utter poverty and frustration of these people. They now have a new outlook on life.

The success of our pioneering encouraged private industry to take over. The Northern Cheyenne division of Guild Arts & Crafts, Inc., became a reality in 1962. The company expanded work projects, bringing many assembly operations to the Indians.

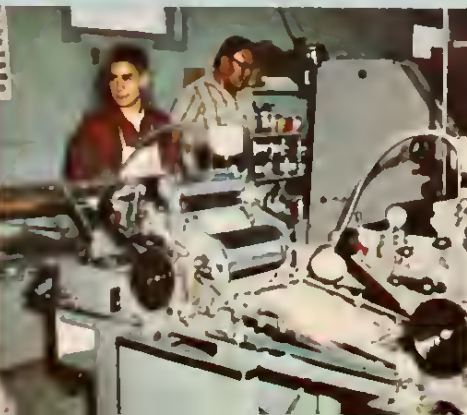
St. Labre Indian School is dedicated to helping the Northern Cheyenne Indians. It existed before the reservation was formed and will continue to educate the Cheyenne youth and fight for the rights of the Indians. St. Labre Indian School is helping the Indian to find his place in modern society.



STUDY PERIOD BEFORE SUPPER

CHEYENNE YOUNGSTERS PLAY DOORS WINTER AND SUMMER

SKILLED EMPLOYMENT OPPORTUNITIES AVAILABLE



HOME MAKING SKILLS FOR THE GIRLS



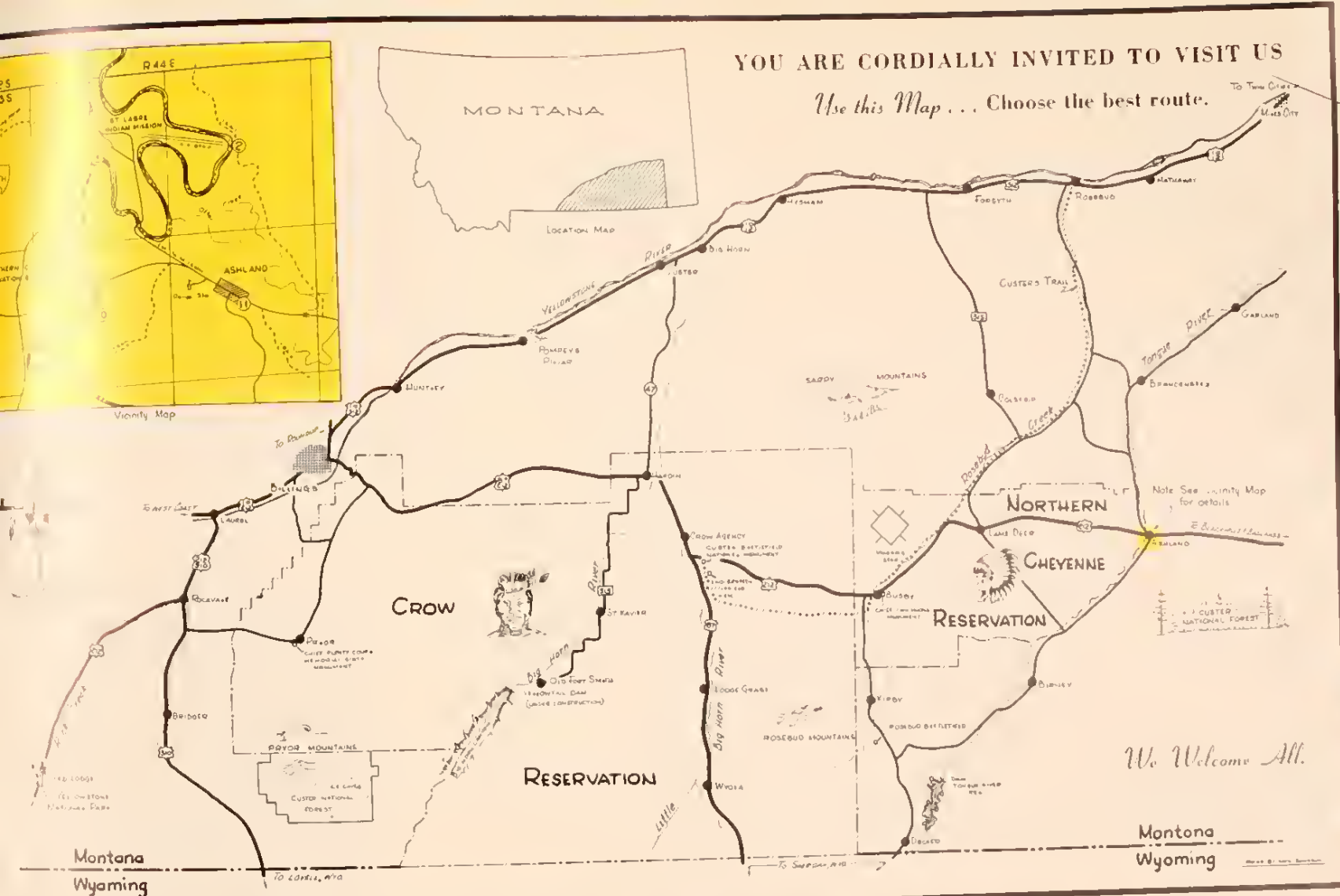
SEWING IS FUN



WHAT'S COOKING?







USING OUR HANDS TO  
MAKE AGATE JEWELRY



SCIENCE CLASSES

FOR KNOWLEDGE



COMMERCIAL SUBJECTS TOO



BIOLOGY CLASS



WE STUDY PHYSICS



LEARNING ABOUT PEOPLE FROM OTHER LANDS





# GUILD ARTS & CRAFTS INC.

## NORTHERN CHEYENNE DIVISION

P.O. Box 137

ASHLAND, MONTANA

PHONE: 784-2771

The Northern Cheyenne division of Guild Arts & Crafts, Inc., began operations at Ashland, Montana, on September 4, 1962. The primary object of the new division is to provide steady year-around employment for at least 100 Northern Cheyenne Indians, with the hope of gradually developing a larger skilled work force.

The history of the Northern Cheyenne tribe reveals the fact that much of the poverty and suffering on the reservation stems from the lack of employment opportunity. Many people have become accustomed to think that the Indian is shiftless and lazy and that he does not want to work. A small employment project started by St. Labre Mission proved beyond a doubt that the Northern Cheyennes wanted to work, and if given the opportunity, could become skilled workers. The success of this small project encouraged the officers of the corporation to open this division.

Guild Arts & Crafts, Inc., was organized in the state of New York in September, 1944. It originally manufactured various religious items maintaining its own stamping, electroplating and assembly facilities. In the post-war period, when low-priced imports again became available from countries with extremely low paid labor, Guild Arts & Crafts, Inc., gradually changed its business and entered the thermo-plastics molding field.

Its plastic activities started when it obtained the exclusive rights to a patent which provided the method and machinery for molding thermo-plastics continuously on a flexible material. Over the years Guild Arts & Crafts improved upon this method so that today it is probably the largest molder of items on chain, nylon and dacron cords. Its end products are used by several industries.

The electronic industry, as a precision, non-conductor, endless chain, for chain drives, many of which are used in television sets. The interior decorating industry, for beaded window curtains, room dividers, and decorative advertising displays. The costume jewelry industry is the largest consumer of the molded beads. Their main advantage is the elimination of the stringing of individual beads. Since the beads are molded continuously, all that is required is cutting the strands to the length desired or required by fashion.

Another advantage is that the colors of the season can be matched or contrasted as dictated by the style designers. The finished item is also extremely light in weight, which pleases the ultimate consumer, the women who wear them.

St. Labre Mission with the cooperation of Guild Arts & Crafts, has established a mail order distribution of costume jewelry assembled by the employees of this division. Catalogs displaying the items are distributed twice a year. The corporation also molds various novelty items used by direct mail fund raisers, both religious and commercial.

The officers of the corporation have been very close to St. Labre Mission for about 12 years. Their knowledge of the employment problems of the Cheyenne made them very receptive to the invitation to establish a part of their industry on the reservation.

On February 18, 1965, the corporation and the Northern Cheyenne tribe dedicated the new \$100,000 building which the tribe erected for the corporation's use. The corporation has signed a 20-year lease which will repay the original investment of the tribe plus 4% interest on this investment. The lease has an option for renewal.

This division of Guild Arts & Crafts specializes in assembly work. The items are molded in New York and shipped to Ashland. Since skilled hand operations are required in the assembly of plastics, the Cheyennes have proven to be a valuable work force. While a minimum of skill is required in assembling novelty items, much more is needed in the jewelry field. Indians have always been adept at hand work and this native ability is now being adapted to modern methods.

Guild Arts & Crafts, Inc. is making a vital contribution to the Northern Cheyennes. Approximately 40% of the available work force is now employed and as the company expands they hope to be able to provide more employment. The Cheyennes are entering a new era, an era filled with hope for security.

The executive offices and molding plant are located at 495 Smith Street, Farmingdale, Long Island, New York.



ABOVE—REPRODUCTION OF TWO PAGES TAKEN FROM OUR JEWELRY RFD BROCHURE

BELOW—EXTERIOR WINTER SCENE OF GUILD ARTS AND CRAFTS PLANT AT ST. LABRE



NATIVE ART — IN MODERN SETTING



A GIFT TO TREASURE



ASSEMBLING NOVELTY ITEMS



A PARADE OF FASHION IN THE MAKING





The "Promised Land" of Abundant, Clean Water & Power — Fine Farming & Ranching — Logging & Lumbering and Unlimited Recreational Development Opportunities . . .



LEFT: RESERVOIR AND DAM IN AN EXCEEDINGLY BEAUTIFUL RECREATIONAL SPOT—ONLY A FEW MINUTES FROM ST. IGNATIUS

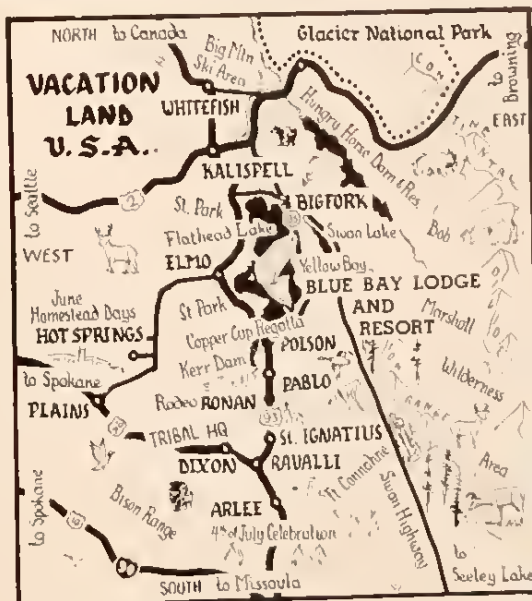


SCENES LIKE ABOVE MAKE THE FLATHEAD RESERVATION ONE OF THE FINEST PLACES TO LIVE IN AMERICA

## FLATHEAD INDIAN RESERVATION

CONFEDERATED SALISH AND KOOTENAI TRIBES' OFFICES AT DIXON, MONTANA — SEE MAP

RIGHT: PICTURE TAKEN YEARS AGO OF INDIAN CHIEFTAIN OVERLOOKING ACTUAL SITE OF PRESENT DAY KERR DAM, BELOW



Come to Where You Can Enjoy Life and Grow With Us



LOGGING  
LUMBERING  
PLYWOOD  
ALL PLAY AN  
IMPORTANT  
ROLE IN  
THE ECONOMY  
OF THIS  
RAPIDLY  
INCREASING  
PRODUCTION  
AREA . . .

Tourist - Hunting - Fishing Information Gladly By Any Business or Individual In The Area





BATHE YOUR WAY TO HEALTH WHILE RELAXING AT CAMAS HOT SPRINGS, HOT SPRINGS, MONTANA

Above and Right—Two Views of Our Modern Lobby Designed for Complete Relaxation. Below—Spacious Grounds for Your Enjoyment and at Right is Shown Ultra Modern Interior in Bath House.



OWNED AND  
OPERATED BY THE  
CONFEDERATED  
FLATHEAD SALISH-  
KOOTENAI TRIBES  
TRIBES



WELCOME  
TO

NORTHWESTERN MONTANA  
LAND OF UNSURPASSED BEAUTY

## CAMAS HOT SPRINGS

GATEWAY TO BETTER HEALTH

YOU WILL  
FIND A  
WEALTH OF  
HISTORICAL  
SHRINES  
AND STORY  
SPOTS TO  
MAKE YOUR  
VISIT A  
MEMORABLE  
ONE INDEED

Remember  
We Are  
Open Year  
Around  
Except  
Christmas  
And New  
Year's Day

No  
Reservation  
Necessary

COSTS ARE AS FOLLOWS: BATHS, COMPLETE WITH  
STEAMS, SWEATS, SHOWERS, TOWELS, SHEETS AND  
ATTENDANT SERVICES.

• ONE TO THIRTEEN	2.00 EACH
• FOURTEEN TO TWENTY	1.75 EACH
• TWENTY-ONE OR MORE	1.50 EACH
• MASSAGES	3.00
• CHIROPRACTOR	4.00

The West's Finest Mineral Springs  
HOT SPRINGS, MONTANA



TRAIL RIDES, BUFFALO HERDS, WATER SPORTS, FISHING, HUNTING, SKIING  
SHORT, PLEASANT DRIVES OFFER YOU YOUR CHOICE OF FUN



FOR THE THRILL OF WESTERN ADVENTURE . . .  
 PLAN AN EXTRA WEEK OR TWO ON THE FLATHEAD INDIAN RESERVATION

GOLFING ON FINE COURSES



WINTER SPORTS



THE FLATHEAD INDIANS WELCOME YOU TO THEIR RESERVATION  
 Plan An Enjoyable Stop At

## BEAUTIFUL BLUE BAY RESORT

INFORMATION GLADLY ON SUMMER & WINTER SPORTS, HUNTING & FISHING

BEAUTIFUL FLATHEAD LAKE



- Fine Restaurant
- Congenial Lounge
- Cabins
- Campground
- Marina and Boating

THREE PHOTOGRAPHS AT RIGHT SHOW MODERN,  
 DELIGHTFUL BLUE BAY RESORT

### OPEN YEAR ROUND

LOCATED ON THE EAST SHORE  
 OF FLATHEAD LAKE  
 DIAL POLSON 883-2026



LARGEST FRESH WATER LAKE WEST OF THE MISSISSIPPI RIVER  
 YEAR AROUND OUTDOOR SPORTS THROUGHOUT THE AREA

CHECK THE FLATHEAD INDIAN RESERVATION — CAPITAL INVESTMENT OPPORTUNITIES IN AGRICULTURE, INDUSTRY AND RECREATION



AIR VIEW OF FRIENDLY RONAN, MONTANA

ABOVE: BEAUTIFUL MISSION MOUNTAINS NEAR RONAN

YOU'LL FIND GENUINE COURTESY IN ALL THE TOWNS ON THE FLATHEAD INDIAN RESERVATION. AIR VIEW OF POLSON AT THE TIP OF FLATHEAD LAKE

LEFT: WHY NOT LIVE IN MONTANA'S FINEST RECREATION AREA?

SCENE ABOVE AND PICTURES TO THE LEFT AND BELOW RUN BY COURTESY OF

RONAN STATE BANK



FOR DETAILED INFORMATION WRITE TO THE FLATHEAD INDIANS AT DIXON, MONTANA OR TO THE RONAN STATE BANK

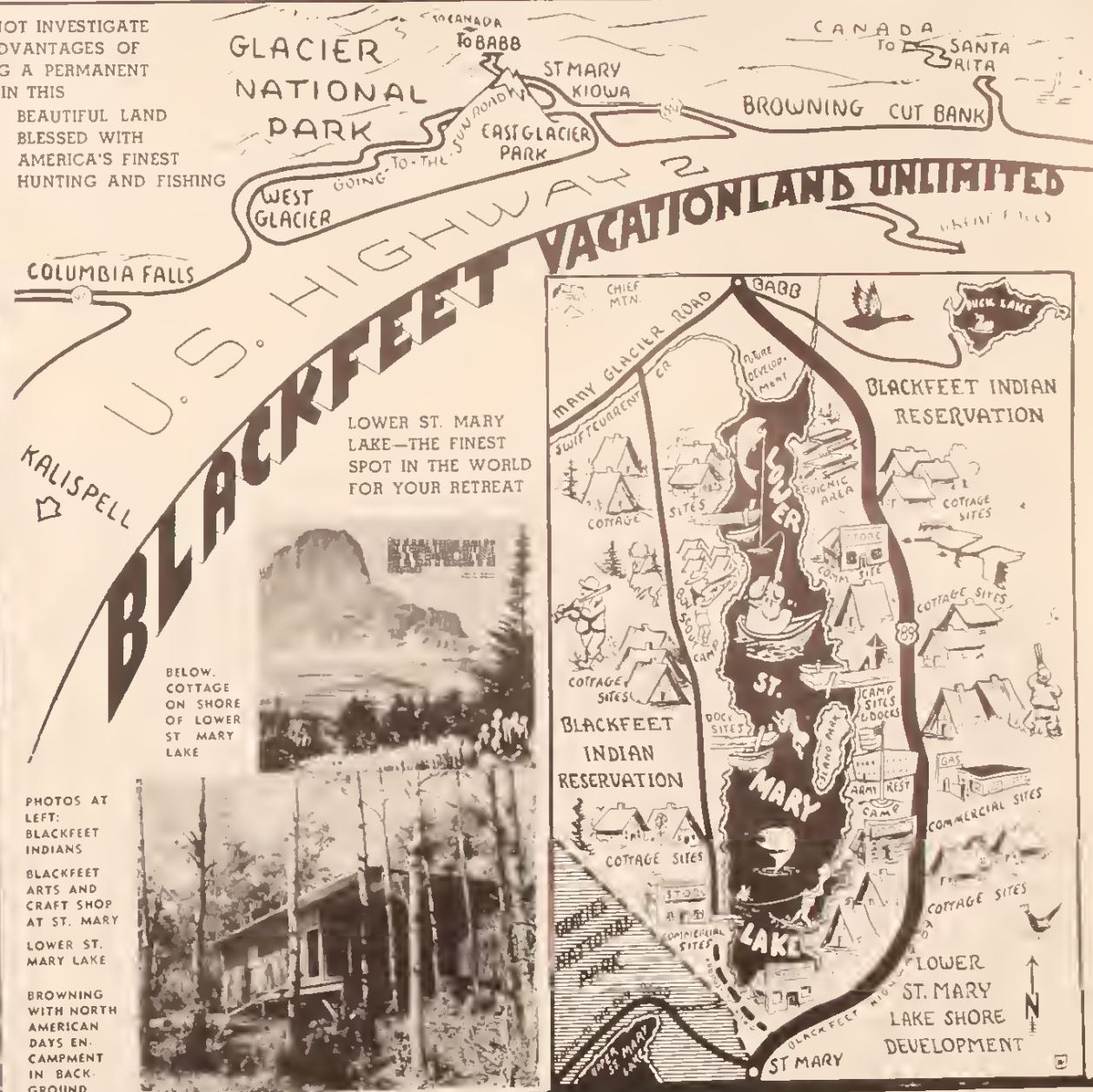


**Browning, MONTANA**  
Home of the Blackfeet Indians  
Gateway to Glacier National Park

Home of the Blackfeet Indians  
Gateway to Glacier National Park

BEAUTIFUL LAND  
BLESSED WITH  
AMERICA'S FINEST  
HUNTING AND FISHING

Good Hospitals, Schools, Churches in Browning and Cut Bank



PHOTOS AT  
LEFT:  
BLACKFEET  
INDIANS  
BLACKFEET  
ARTS AND  
CRAFT SHOP  
AT ST. MARY  
LOWER ST.  
MARY LAKE

BROWNING  
WITH NORTH  
AMERICAN  
DAYS EN-  
CAMPMENT  
IN BACK-  
GROUND

YOU'LL LIKE THE BEAUTIFUL LOWER ST. MARY LAKE AREA

## THE FRIENDLY BLACKFEET WILL ASSIST YOU IN ANY WAY POSSIBLE IN SECURING RELIABLE INFORMATION ON INDUSTRIAL DEVELOPMENT

### A WEALTH OF RAW MATERIALS AND POWER

**The Reservation is located near the source of supply of many types of raw materials.** Wool is shorn from thousands of sheep which graze on the reservation. Aluminum is available from half a dozen plants within trucking distance of Browning. Lead, zinc and silver come from the mines of the Custer d. Alesno, in Idaho which is little more than 200 miles distant. Copper is mined from the hills of Butte, some 200 miles away. Forests, on the reservation and all around it, produce an almost endless variety of lumber to meet any need.

**OIL AND NATURAL GAS**—There are oil wells and natural gas on the reservation. The oil wells on the eastern portion of the reservation are in the well-known Cut Bank oil field.

**IRON** An extensive titaniferous magnetite deposit, the so-called Choleau iron deposit, extends over the western half of the reservation at the foot of the Rockies. The titanium content is locally as high as 12 per cent and the iron content averages 30 to 40 per cent. Tonnage is phenomenal but it is undoubtedly high because of its widespread occurrence.

**COAL** According to the Montana Bureau of Mines and Geology, Glacier County has a coal reserve of 33.36 million short tons. Pondera County has 21.89 million short tons.

**AGRICULTURAL PRODUCTS**—Hard winter wheat and spring wheat, barley, mustard, flax, and hay are the principal crops of the region. Livestock consists chiefly of sheep and beef cattle.

**CONSTRUCTION MATERIALS**—Gravel, rock, timber and surface and subsurface water.

**ELECTRICITY**—Electricity is supplied by the Glacier Electric Cooperative, Incorporated. Address: 14 East Main, Post Office Box 358, Cut Bank, Montana. Power is supplied from the Fort Peck Dam, located in northeastern Montana, by the Bureau of Reclamation. This power supply is tied in with the great northwest power pool.

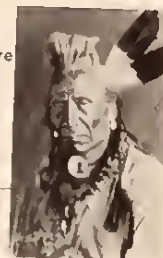
The Blackfeet Reservation has its headquarters at Browning, Montana, a city of approximately 3,000. The Reservation lies chiefly in Glacier County with a small portion on the south and east extending into Pondera County. Browning is just 12 miles from East Glacier, entrance to Glacier National Park, in northwestern Montana, adjacent to Canada. Cut Bank, Montana, the County Seat of Glacier County, is 35 miles northeast of Browning. Miles of green range and farmlands fan out from the base of the Rocky Mountains to form the Reservation, which covers an area of 1,525,662 acres, or a tract of land 52 by 58 miles. Write to the Blackfeet Tribal Council or to Glacier Electric Cooperative in Cut Bank.



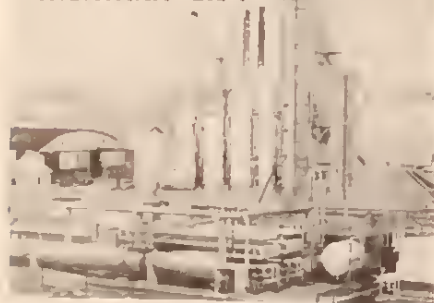
## THE Blackfeet INDIANS

This Presentation by Courtesy of the  
Blackfeet and Glacier Electric Cooperative

TRIBAL OFFICES AT  
BROWNING, MONTANA



Buy, use, and protect  
MONTANA OIL!



CHECK WITH  
OUR IN  
DUSTRIAL  
DEVELOP-  
MENT COM-  
MITTEE

Cattle, Horse & Sheep

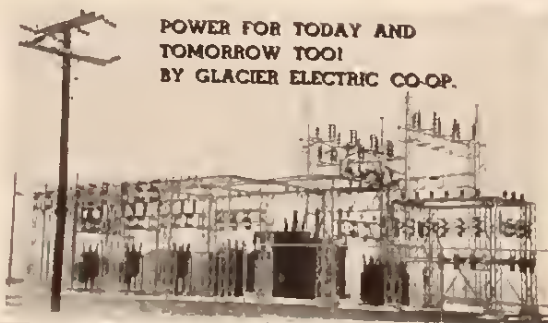


THE BLACKFEET INDIANS WELCOME YOUR  
INDUSTRIAL INQUIRIES



Lumber Is Your Best Buy!

POWER FOR TODAY AND  
TOMORROW TOO!  
BY GLACIER ELECTRIC CO-OP.



INVESTIGATE BLACKFEET PRODUCTION LAND UNLIMITED





ABOVE: BLACKFEET INDIANS HAVING FUN AT  
NATIONALLY FAMOUS TRICK FALLS



ABOVE: THESE BUFFALO, PART OF ONE OF THE LAST GREAT HERDS IN THE UNITED STATES, AWAIT VISITORS TO MONTANA'S NATIONAL BISON RANGE, LOCATED JUST OFF U. S. HIGHWAY 93 IN HISTORIC FLATHEAD INDIAN COUNTRY

### SOMETHING OLD — SOMETHING NEW . . .

These Pictures Taken on Montana's Four Most Progressive Indian Reservations Depict the Colorful, Historic Past That is Linked by Tradition and Adaptability to the Emerging Dynamic Indian Progress of the Current Years . . .

BELOW: TEEPEES ON THE CROW RES-  
ERVATION BEING READIED FOR ONE  
OF THEIR GALA CELEBRATIONS



BELOW: HUGE NEW SCHOOL COMPLEX ON THE NORTHERN CHEYENNE RESERVATION



## THE CROW INDUSTRIAL DEVELOPMENT COMMISSION OFFERS YOU —

A 65 acre Industrial Site adjacent to Highways 87 and 212, to the CB&Q Railway with a spur line into the site

An alert trainable labor pool anxious to work.

A wealth of raw material including oil, timber, coal, bentonite, gravel, rock, clay, surface and sub-surface water

Consult the Commission and come to the Crow Indian Reservation. The Reservation is situated in Big Horn County in southcentral Montana. It comprises 2,275,434 acres of rich agricultural land with unsurpassed scenic area, the vast Yellowtail Dam lake, and offers a primitive beauty that is the dream of outdoor sportsmen.

Other industrial sites are available besides the one presently under construction at Crow Agency. Some of these are available with natural gas, artesian water wells, and include enough acreage to permit the construction of an air-strip.

The Crow Industrial Development Commission will lease land in the industrial park at Crow Agency at very reasonable rates. The Crow Industrial Development Commission also may make available sums for construction of buildings, purchase of equipment, expenses of moving a plant, and for other industrial purposes.

Financial assistance is available to employers for on-the-job training of Indian employees through the Bureau of Indian Affairs, U. S. Department of the Interior. Such help can be furnished by the Bureau under negotiated contracts with established corporations and associations that have apprenticeship or on-the-job training programs for their employees.

We have land, willing workers, and the ultimate in recreational diversion for after-work relaxation. We need your industries. You need our wide open spaces with room to breathe, our healthful climate, and our undeveloped resources.

Write or call the Industrial Development Commission, Crow Agency, Montana, for an Industrial Survey of the Crow Indian Reservation or further information. Let us plan with you for the best interests of your firm and for the benefit of our area.

### DISTANCE FROM REPRESENTATIVE LARGE CITIES TO CROW AGENCY

Hardin—13 miles  
Billings—63 miles  
Sheridan, Wyoming—72 miles  
Denver, Colorado—525 miles  
Minneapolis-St. Paul—890 miles  
Chicago, Illinois—1270 miles  
Salt Lake City, Utah—565 miles  
Los Angeles, California—1275 miles  
San Francisco, California—1191 miles

## Investigate Now! You'll Find Many Unexpected Advantages in Locating Your New Plant on the Crow Reservation



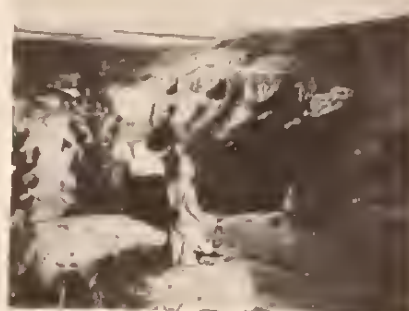
MAP OF OPPORTUNITY LAND UNLIMITED

Why Not Visit This Huge Reservation Where You Will Probably Find Exactly What You Have Been Looking For in Your Plans For Expansion . . .

RIGHT: WHEAT—MILES AND MILES OF IT THE CROW RESERVATION HAS THE FREE WORLD'S LARGEST WHEAT OPERATION



RIGHT: NEW YELLOWTAIL DAM ASSURES PLENTIFUL POWER PLUS UNEXCELLED POTENTIALS FOR ONE OF AMERICA'S GREAT RECREATIONAL AREAS



RIGHT: SUGAR BEETS ARE ANOTHER BIG CROP AND ARE PROCESSED IN A MODERN SUGAR MILL AT NEARBY HARDIN



RIGHT: CATTLE, SHEEP AND HORSES THRIVE IN THIS BOUNTIFUL COUNTRY, SOME OF MONTANA'S FINEST LIVESTOCK COME FROM HERE, YEAR AFTER YEAR



yellowtail visitor center

Join Us — Let Us Grow and Prosper Together on the Beautiful Productive Crow Reservation

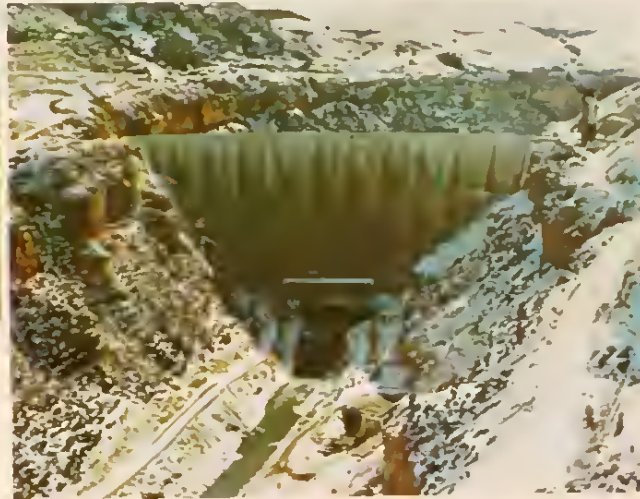




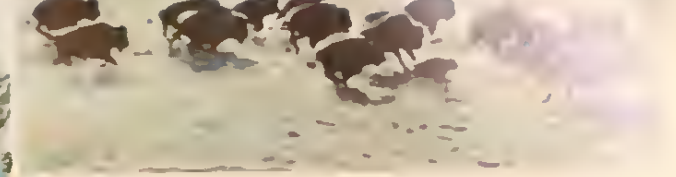
## Industrial Development Commission Invites You to Check The Facts on the Crow Reservation



WILDLIFE MAKES THE CROW RESERVATION A  
HUNTER'S AND FISHERMAN'S PARADISE — STOP  
AND VISIT US ON YOUR NEXT TRIP BETWEEN  
THE BLACK HILLS AND YELLOWSTONE PARK



NEW YELLOWTAIL DAM ASSURES AMPLE POWER FOR  
LARGE OR SMALL INDUSTRIAL NEEDS



## CROW INDIAN RESERVATION

Welcome  
To  
Southeastern  
Montana



CROW  
AGENCY,  
MONTANA

PHONE 638-2342  
or  
638-2343

RIGHT: INDUSTRIAL  
DEVELOPMENT  
COMMISSION

LEFT TO RIGHT:  
RALPH TURNS PLENTY,  
VICE CHAIRMAN  
CHESTER DEPUTY,  
ELOISE PEASE,  
SECRETARY  
GEORGE OLD ELK, JR.  
CHAIRMAN  
HARVEY DRIFTWOOD



THESE ARE THE PEOPLE THAT WILL  
HELP YOU



LEFT AND BELOW:  
PRODUCTION PICTURE  
AND EXTERIOR OF NEW  
U. S. AUTOMATICS PLANT  
WHICH IS THE LATEST  
INDUSTRIAL DEVELOPMENT  
ON THE CROW  
RESERVATION



This Brochure  
Courtesy Of  
Crow  
Industrial  
Development  
Commission



LEFT:  
ENJOY THE  
MANY  
COLORFUL  
EVENTS  
HELD ON THE  
RESERVATION  
EACH YEAR



The Crow Reservation is on Highway 87, A Dozen Miles South of Hardin,  
Montana and 10 Minutes from Custer Battlefield





WELCOME TO THE BIG  
HORN COUNTRY . . .  
SITE OF THE NEW YELLOWTAIL  
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Wheat Farm

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Sheep

Sugar Beets  
And Other  
Farm Crops

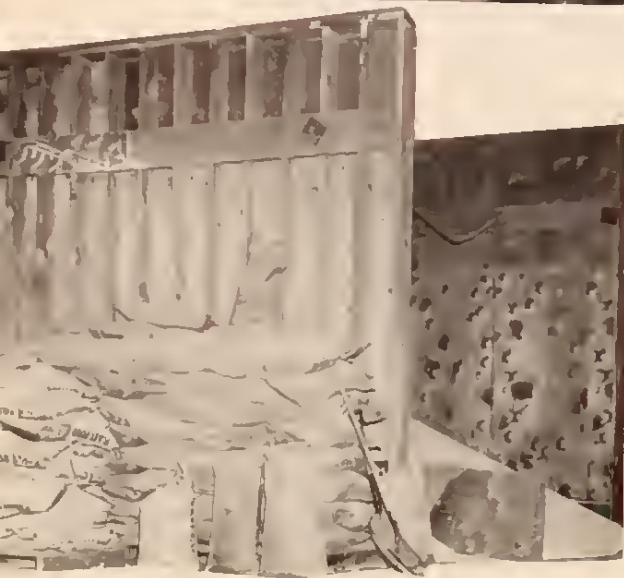


Feed -- Seed  
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Custom Application  
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Leading Brands of  
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# BUTTE, MONTANA

BY SCOTTY CAMPBELL

Summit Valley they called it — just an uninhabited valley stretching out into the distance, hemmed in by mountain ranges, and headed by a bleak barren butte on the north end.

That was the scene one evening in May, 1864 when two travel-stained prospectors named Humphrey and Allison stood at the brow of the barren hill at the head of the valley. At their feet was an old prospect hole, and nearby the long discarded elk-antler digging tools of some unknown digger. The setting sun shone brightly on the crude implements, and the men noticed they were gold-tipped. They decided to stay.

Because of that decision, Summit Valley became a placer gold camp, later a silver enterprise, and finally the largest single copper producing district in the world — Butte, Montana.

And propheticly, it is today and will continue to be for into the future, a gold-tipped market for all types of merchandise and services.

For many years Butte was one of the roughest, wildest, most colorful cities in the world. Butte was the "Wild West" where no holds were barred and no stakes too high. But in the intervening years Butte has changed — the sound and the fury has almost gone, and Butte's friendly citizens want it that way.

The change has been gradual but there's no doubt in anyone's mind now — Butte has grown up. The rough-tough days of Butte's youth are past, though not forgotten. Butte has learned, benefitted and matured. There have been tough times, ups and downs, but there's a conviction that 'Butte always bounces back' and she has. Now married to a bright and promising "gold-tipped" future, Butte's responsibility and greatest concern is to adequately provide a comfortable cosmopolitan home for its 50,000 open-hearted people. It's long been said that Butte's people of every race and nationality are the city's greatest asset.

Most significant too — Butte's gold-tipped market destiny is secure. The Anaconda Company's mining experts speak of Butte's future prospects in glowing terms. They say there is no foreseeable end to the life of the "Richest Hill on Earth," as the ton-for-ton program (which is the development of a ton of new reserves or each ton of ore extracted) continues unabated.

**SALES — DISTRIBUTION  
SHOPPING AND CONVENTION CITY  
FOR SOUTHWESTERN MONTANA**

As Butte's famous old properties continue to produce high grade ores under conventional mining operations, spectacular new developments now contribute to Butte's enormous annual metal output and odd years of life to the district.

One is the Greater Butte Project, centered in the Kelly Mine, where 180,000,000 tons of low-grade ore are known to be available through "block-caving" operations. Out of this Kelly Project comes 17,000 tons of ore daily.

The third method of mining that has further implemented the upsurge on the Butte Hill is "open-pit" mining, as is now being done in Berkeley Pit. Approximately 17,500 tons daily come out of the Berkeley Pit and the life of this one pit alone will be a minimum of 30 years.

In addition to copper, this development work is also carried out in Butte's high-grade zinc and manganese mines.

All three of these mining methods, and the huge reserves foreseen, combine to assure Butte's biggest expansion in history. For most of Butte's citizens — Butte has everything, and the facts support it. In addition to being one of the world's great mining centers, it is also an industrial center, an agricultural center, a wholesale center, a retail center, and is, in addition, a favorite spot for tourists.

The story of Butte's transportation facilities is a distribution "Believe It Or Not!" It is the only city in Montana, North Dakota, South Dakota, Wyoming and Idaho that is served daily by four transcontinental railroads — the Northern Pacific, the Chicago, Milwaukee, St. Paul & Pacific, the Great Northern, and the Union Pacific. Butte even has its own railroad, transporting ore to Anaconda, Montana — the Butte, Anaconda & Pacific.

Butte is at the intersection of U. S. Highways No. 10-S and U. S. 91, and is pinpointed as the hub city in Montana for the national system of interstate and defense highways.

Fifty percent of the freight coming into the state of Montana is distributed from Butte. Butte is the wholesale center of the state, and the retail store mecca for folks throughout the trade area. Butte's retail stores attract business from the eight surrounding counties — known as Montana's Magicland — with its population of 120,000 people.

Continuance of the greatest home-building program in the history of the community has kept pace with the increased activity in industry and the field of trades. Most schools have been remodeled and several new schools have been built in recent years, including a new \$2,500,000 junior high school.

Yes, Butte is changing. Her ideas are changing. Her people are changing. It's a city with a destiny — with signs on all sides pointing to an almost magical future. Butte will have new markets for its fabulous wealth, and will provide an excellent market for all types of merchandise and services. Butte holds new horizons for its hospitable people.

After all, it was in the cords, right from the time that the setting sun shone brightly on the elk-antler diggin' tools there at the feet of the two old prospectors, Humphrey and Allison. Right from the beginning, Butte's future was destined to be "gold-tipped."



YES

You Can Obtain Top Quality

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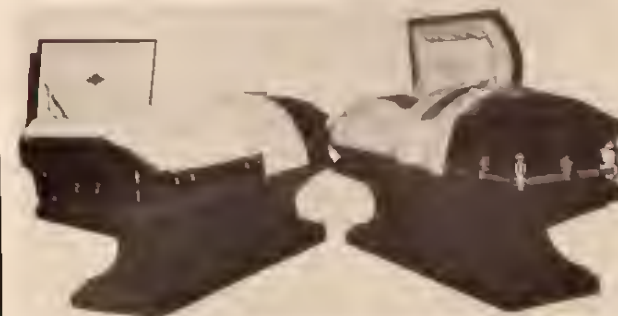
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NOT DOWN TO A PRICE

BELOW: 1965 DISPLAY AT FIRST MONTANA MANUFACTURERS ASSOCIATION ALL MONTANA PRODUCTS EXHIBIT





# PASLEY MOTORS

Welcomes You To Butte, Montana

Montana's Famous Mining City



MAKE  
BUTTE  
YOUR  
HEAD-  
QUARTERS  
WHILE  
ENJOYING  
THIS  
HISTORIC  
AREA

## What to See in Butte —

Columbia Gardens — Beautiful amusement park with playground, picnic facilities and fun rides is three miles east of Butte.

Ritz Gem Collection — On campus of world-famous Montana School of Mines.

Berkeley Pit and Mines — Watch operations from observation point or tour mines.

Hilltop Gallery — Art shows when scheduled at the YMCA.

Live Theatre — The best in drama or melodrama, in season.

Sight-seeing — Follow the self-guiding tour by car.

## Close to the City —

Anoconda Smelter, Quake Lake, Lewis & Clark Caverns, Gates of the Mountains, Georgetown and Echo Lakes, Yellowstone Park. Ghost towns: Hecla, Elkhorn, Granite. Ghost towns now alive: Virginia City and Nevada City. Big Hole Battlefield.



# 1966 Cadillac

NEW ELEGANCE...NEW EXCELLENCE...NEW EXCITEMENT



LEFT: THE  
ANACONDA  
COMPANY'S HUGE  
OPEN PIT IN BUTTE



RIGHT:  
BEAUTIFUL  
SCENIC SPOTS  
LIKE LAKE AND  
MOUNTAINS  
SHOWN,  
ABOUND  
THROUGHOUT  
ALL OF  
WESTERN  
MONTANA





**MISSOULA  
THE  
INDUSTRIAL  
AND  
CULTURAL  
HUB OF  
WESTERN  
MONTANA**

Home of the University  
of Montana

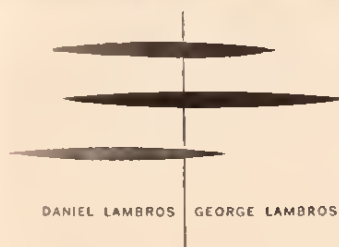


TRADING AND SHOPPING CENTER FOR WESTERN MONTANA

HEART OF THE HUGE MONTANA FOREST PRODUCTS INDUSTRY — LIVESTOCK SALES AND SHIPPING CENTER FOR SOUTHWESTERN MONTANA — TRUCK, RAIL, AIR TRANS-

PORTATION TOGETHER WITH PLENTY OF POWER, GAS & PURE CLEAN WATER MAKE MISSOULA THE LOGICAL CHOICE FOR NEW INDUSTRY

Pictures courtesy of LAMBROS AGENCY and REELY BROTHERS



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MISSOULA, MONTANA

PHONE 543-6664

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ARCHITECTURAL  
CONCEPTION  
OF ONE  
OF REELY  
BROTHERS  
NEW  
INDUSTRIAL  
PARKS AT  
MISSOULA,  
MONTANA



## LOOKING FOR PROFIT and PROGRESS? CHECK THE FACTS REGARDING MISSOULA

### STRATEGIC LOCATION

Trading center for five great valleys in western Montana. Metropolitan population of 50,000. Primary trade area of nearly 100,000. Secondary trade area of 175,000.

### POWER

Missoula is served by a private utility that is a member of the Northwest Power Pool which is in turn composed of private northwest power companies and the Bonneville Power Administration. There are also over 1,000 commercial users of gas.

### LABOR FORCE

Skilled labor is organized under the AFL-CIO. The caliber of labor available in the area is far above average. Current wage scales available on request.

### TRANSPORTATION

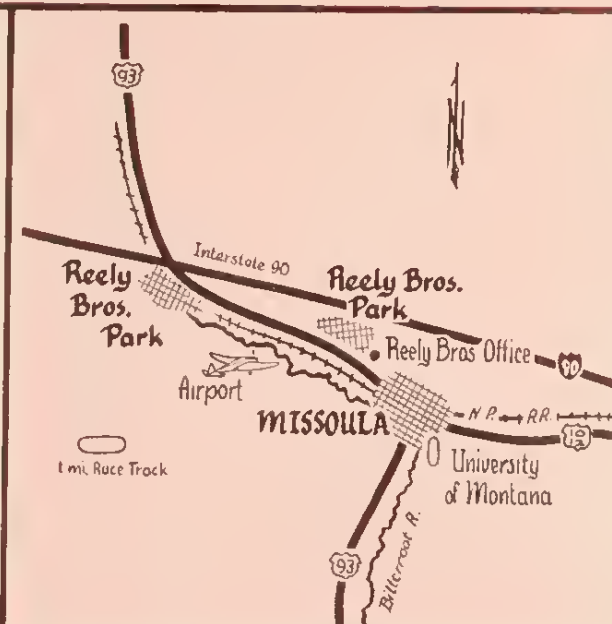
Missoula can serve promptly and economically the entire Pacific Northwest, most of which lies within 600 miles of the city, by 2 transcontinental railroads, Northwest Airlines and contract air hauling by Johnson Flying Service, 3 bus lines and 8 motor freight lines.

### BUSINESS CLIMATE

Montana is the new, alive industrial frontier and every assistance is offered to new investors. We will be glad to answer specific inquiries.

### COME PROSPER WITH US

Come where the great industrial potentials are located and rest assured of adequate power, water, and room to grow.



MAP SHOWING MISSOULA AND REELY BROS. INDUSTRIAL PARKS

### FACTS ABOUT MISSOULA

- Home of the University of Montana
- Center of the huge Montana Forest Products Industry
- Located in the heart of America's great mineral deposits
- Important agricultural and livestock trading center

### LIVING CONDITIONS

A good, clean, prosperous community with fine schools and churches

RECREATION — Four seasons vacationland with full summer and winter activities

### EDUCATION AND CULTURE

Art classes and shows, "Little Theatres," libraries and everything that makes up a well rounded university city.

### CONSTRUCTION AND SITE COSTS

Full particulars on sites suitable for your business and construction costs on buildings you need will be carefully and cheerfully furnished.

### MARKET POTENTIAL

Tops in the nation because of the rapidly growing west.

### OUR NEW PARKS

As shown on map at left, offer excellent sites for light and heavy industry and we wish to **stress**, are real industrial parks with the necessary restrictions to assure that your investment will be a profitable one in all the years to come—A genuine, park-like atmosphere is a concrete part of all planning and development in the two locations. — Requirements and code standards available upon request.

Your whole family will like Missoula, a fine university at hand will make the college years for the children a rich experience for both you and them.

MAKE THE MOST OF THESE PREFERRED INDUSTRIAL PARK'S MANY ADVANTAGES



# PASLEY MOTORS

INVITES YOU TO VISIT  
MONTANA'S YEAR AROUND  
MAGICLAND

SEE ALL OF HISTORIC SOUTHWESTERN MONTANA'S  
SCENIC MAGICLAND — WE WILL BE HONORED TO  
SERVICE YOUR CAR WHILE YOU STAY IN BUTTE



BUTTE —  
The Hospitality City  
FOR  
Convention-Goer  
Fellow Montanans  
Tourists  
Sportsmen



*STEP* OLDSMOBILE  
*OUT FRONT*  
*IN '66... in a Rocket Action Olds!*



VISIT OUR  
GOLF  
COURSES  
AND SEE  
FAMOUS  
LEWIS AND  
CLARK  
CAVERNS

**OLDSMOBILE AND CADILLAC GENERAL MOTORS' BEST**  
FOR SALES AND SERVICE — COME TO PASLEY MOTORS

2801 Farragut Avenue

Factory Trained Specialists. Of Course

Dial Butte 723-6508

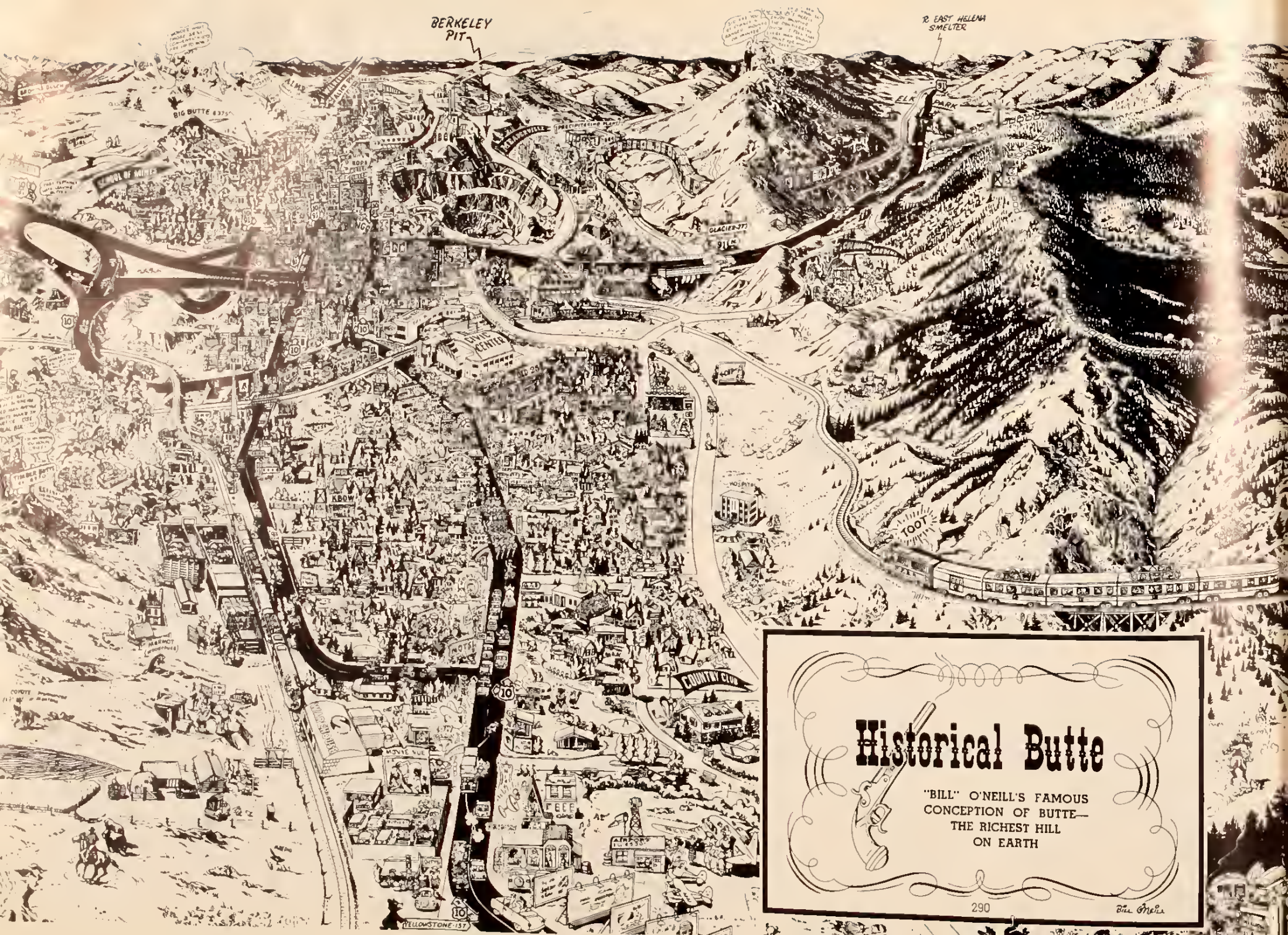
289

LIFE, WESTERN STYLE

QUIT WISHIN' — GO FISHIN' IN SOUTHWESTERN MONTANA







# Historical Butte

"BILL" O'NEILL'S FAMOUS  
CONCEPTION OF BUTTE—  
THE RICHEST HILL  
ON EARTH





BITTERROOT VALLEY AREA MAP



## WELCOME TO THE HISTORIC BITTERROOT VALLEY

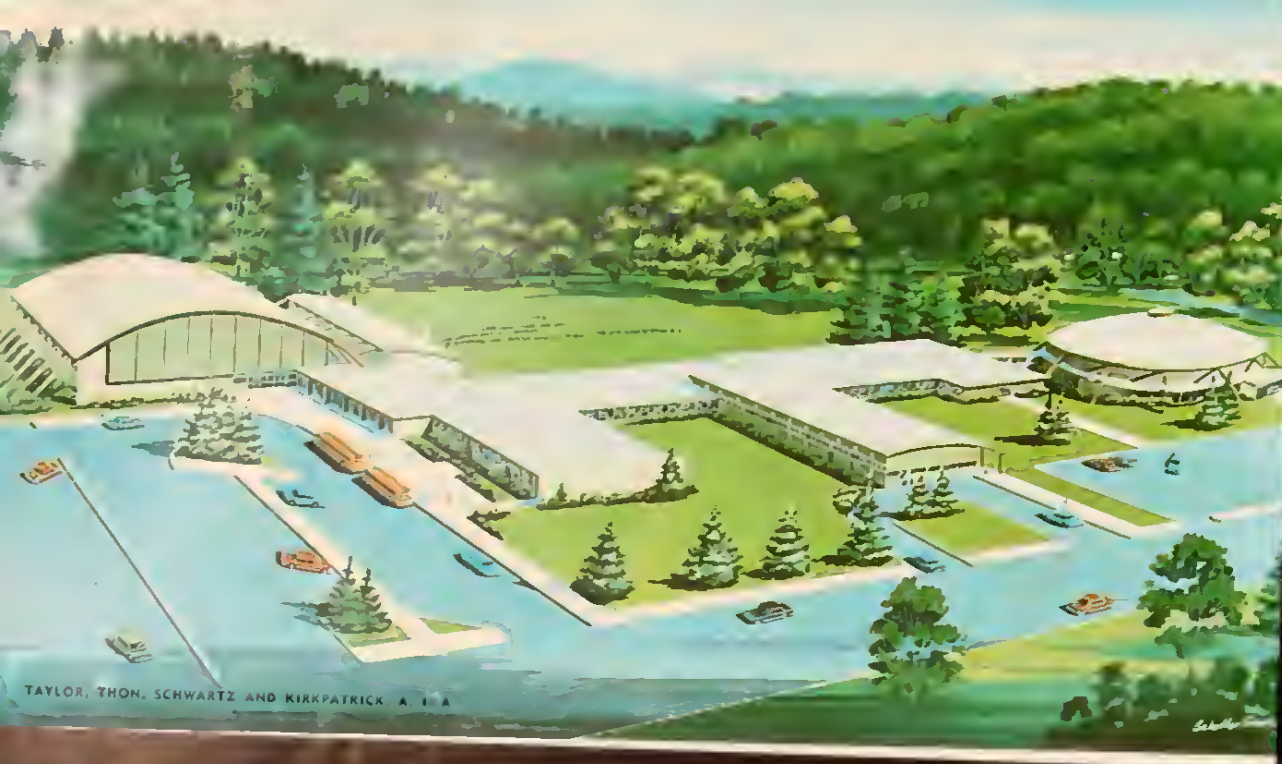
- ★ Beautiful Scenery
- ★ Historic Sites and Shrines
- ★ Montana's Finest Beef and Dairy Cattle
- ★ Grains and Diversified Crops of Many Kinds
- ★ Fine Schools, Churches and Medical Facilities

GOOD FOOD — FINE  
ACCOMMODATIONS AND GENUINE  
WESTERN HOSPITALITY  
MAY WE SEE YOU SOON?

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BITTERROOT TIMBER INDUSTRIES, INC  
RAVALLI COUNTY BANK  
YORK CONSTRUCTION COMPANY







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 RESIDENTIAL BUILDING AND REMODELING  
 COMMERCIAL — INDUSTRIAL — INSTITUTIONAL  
 LET US SHOW YOU ANY OF OUR MANY FINE BUILDINGS  
 WITHOUT OBLIGATION  
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TOP: NEW HIGH SCHOOL AT LIBBY, MONTANA    LEFT: BANK INTERIOR AT HAMILTON, MONTANA    BELOW: MOUNTAIN STATES TELEPHONE BUILDING IN MISSOULA, MONTANA



## THE RAVALLI COUNTY BANK



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 Opportunities — Call on Us When Visiting  
 Montana's Beautiful Bitterroot Valley

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LIVE THE FULL, RICH  
WESTERN LIFE IN THE  
"BIG SKY COUNTRY"

One of the Really Great Outdoor  
Areas For Youngsters  
Of All Ages

RIGHT: GAME OF ALL SIZES AND SHAPES MAKE MONTANA  
TRULY A HUNTER'S PARADISE—FISH & GAME DEPT. PHOTO  
RIGHT, BELOW: "LIVING MONTANA STYLE." RIDERS ENJOY-  
ING ONE OF OUR NATIONAL PARKS  
—PRODUCTION SURVEYS PHOTO

BELOW: SCENIC BIG CREEK LAKES IN THE BITTERROOT  
NATIONAL FOREST—U. S. FOREST SERVICE PHOTO





OVER FIFTY EMPLOYEES IN OUR MODERN  
PLANT AND SERVICE DEPARTMENT



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MEAT PRODUCTS**

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SINCE 1890

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. . . MAKES MONTANA**

FRESH AND PROCESSED MEAT PRODUCTS

PAYROLLS — TAXES, AND A REASONABLE  
PROFIT IS ALL WE EXPECT



CLEANLINESS AND QUALITY IN EVERY OUNCE OF MEAT  
THAT LEAVES OUR PLANT



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TRUCKING PROBLEMS WITH EXPERIENCED PERSONNEL  
WE HAUL ANYTHING — INCLUDING LUMBER

LOCATED  
IN REELY  
INDUSTRIAL  
PARK  
HIGHWAY  
10  
WEST EDGE  
OF  
MISSOULA,  
MONTANA

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LINES  
Nationwide  
Movers

**We Invite You To  
Montana ---**

**The "Big Sky Country"  
With a Future as Big  
As All Outdoors**

**147,138 Square Miles of  
Wonderful Country and  
Unequaled Opportunity  
For Future Growth**



# RAIL, TRUCK and AIR TRANSPORTATION AT YOUR DOOR

INDUSTRIAL AND SERVICE HUB OF  
WESTERN MONTANA



## Reely Brothers



### REAL ESTATE INVESTMENTS

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AND LEASEBACKS

Inquiries receive prompt attention and are handled in  
the strictest confidence.

JOHN L. AND WILLIAM E. S. REELY  
No. 1 Commerce Street  
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Above—A few of our present light industrial plants and  
service companies already doing business—and now  
200 ACRES OF NEWLY ACQUIRED AREA ADJACENT  
TO HIGHWAYS 10 & 93 AND INTERSTATE 90 NORTH  
OF THE AIRPORT.  
NEW 10,000 SQUARE FEET WHOLESALE SUPPLY BUILD-  
ING SHOWS PLENTIFUL PARKING AREA.



ARCHITECTURAL CONCEPTION OF NEW INDUSTRIAL PARK



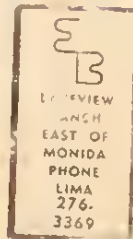
# Why Montana?

**BECAUSE ---**

**IT IS A WAY OF LIFE!**

In a Beautiful Land of Vast Natural Resources Offering Unlimited Opportunities for Capital Investment Combined with an Industrious People Constantly Searching, Growing, Planning for the Years Ahead in this Rapidly Changing World

Center, Below: Children of Wayne and Annelise Montgomery enjoy the Winter Snow at Their Lakeview Ranch Home. Left to Right: Mary Anne Julie, Melville and Wayne. Eighteen-month-old Lisa Not Shown



## WAYNE MONTGOMERY FAMILY OF MONTANA

The 300 pages in this manifest graphic depict what Montana has to offer — Behind the social, cultural, commercial and industrial facade of this advancing area are tens of thousands of Montanans at work in a scenic, climatic and recreation setting of priceless inspiration to men who demand accomplishment.

THE FOUR SEASONS VACATIONLAND, U. S. A.













